Clinical Courses

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Medical School Registrar’s Office (585) 275-4541
601 Elmwood Avenue, Box 601, Rochester, New York 14642
GENERAL INFORMATION

UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY

Medical School Registrar’s Office (585) 275-4541
Box 601, 601 Elmwood Avenue, Rochester, New York 14642
### 2018 – 2020 Clinical Calendar

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<th>DATES</th>
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Introduction

The third and fourth years of the Double Helix Curriculum (DHC) at the University of Rochester School of Medicine and Dentistry (URSMD) are designed to build upon the clinical and basic science knowledge acquired during the first two years. This educational goal is accomplished through exposure of students to clinical medicine in inpatient settings and management of acutely ill patients requiring hospitalization. This is accomplished primarily in the core clinical clerkships of the third year. This is a complement to prior exposure to patients in ambulatory settings with an emphasis on basic clinical skills and preventive medicine across the spectrum of primary care and specialty care. Additionally, students have the opportunity to return to advanced basic sciences in the context of the acutely ill patient. Students have electives which they can utilize to focus their learning based upon their individual needs.

Across the third and fourth years of the DHC, UR medical students have the flexibility to complete required clerkships and clinical electives. Students will have already completed the core ambulatory clerkship (ACE) during the first and second years of the curriculum. Six additional core clinical clerkships (internal medicine, surgery, obstetrics and gynecology, pediatrics, psychiatry and neurology,) must be completed by the end of the third year. These core clerkships provide students with advanced training in clinical data gathering and written and oral communication skills. Moreover, there is increased exposure to the interpretation and synthesis of clinical data and critical clinical decision making which are essential components for a career in medicine.

There are several required clinical experiences that must be completed by the end of the fourth year – Emergency Medicine (4 weeks), Surgical Subspecialty Selective (at least 2 weeks); Subinternship in one of the following – Internal Medicine, Obstetrics and Gynecology, Pediatrics, Neurology and Surgery. Within surgery, students can complete a subinternship in: General Surgery, SICU, Trauma Surgery, Orthopedics, Plastic Surgery, Thoracic Surgery (4 weeks). In addition, students must complete the Community Health Improvement Clerkship (4 weeks), Process of Discovery course (3 weeks) and Successful Interning (2 weeks). Students may elect to take selected required clinical experiences in the third year providing they have the necessary pre-requisites. The Subinternship, Process of Discovery, CHIC and Successful Interning courses, must be completed in the 4th year at the University of Rochester SMD. In order to meet the minimum graduation requirements, students will also be expected to complete 2-4 weeks of clinical electives selected with their individual advisory dean based upon performance on the comprehensive assessments and prior clinical clerkships.

The elective program is designed to provide a broad range of educational opportunities that enhance both educational needs and interests of students. Specifically, clinical electives may be used to: 1) aid in career-decision making; 2) obtain clinical experiences that will not be included in post-graduate training; 3) enhance clinical skills in areas of specific weakness; 4) pursue advanced clinical experiences and 5) pursue experiences in clinical research. This elective program catalogue is a resource of information related to the University of Rochester School of Medicine and Dentistry’s clinical curriculum with a specific emphasis on clinical electives.
Intent and Format of the Elective Program

Clinical electives are an integral part of the UR SMD curriculum. Participation in clinical electives fosters academic growth in a number of areas. All departments in the medical school sponsor electives for clinical students. Current clinical electives range from experiences in clinical research to active involvement in community and/or international health. Electives are offered in a diverse group of clinical settings from academic health centers to community hospitals. In addition to the wide variety of clinical electives outlined in this bulletin, students and faculty members may design a clinical elective experience based on student interest. Students may not engage in a formal elective sponsored by a close relative. All electives must meet specific guidelines. Students may not be paid for any elective for which they are receiving academic credit. We encourage students to work with faculty members in custom-designing electives to suit your individual professional development needs. Self-designed elective proposals must be reviewed and approved, in advance, by an appropriate UR SMD faculty member and your Advisory Dean. Students interested in designing special clinical electives should contact the Registrar’s Office for information regarding elective requirements.

The content and format of each student’s clinical elective program is created through a collaborative effort of the student with his/her advisory dean. Many factors contribute to the construction of an individual student’s elective program. Each student’s special clinical and career interests are among these factors. Additional considerations in the construction of a clinical elective program include the following:

• provision of a clinical experience of special interest that may not be otherwise covered in the curriculum
• provision of greater depth or breadth of experience in required curricular areas
• correction of an academic weakness as identified through the 2nd year or 3rd year comprehensive assessment
• provision of a mentoring relationship in patient care, research or education
• initiation or continuation of basic or clinical science research.
Academic Policies and Requirements for Years 3 and 4
Quick Reference Guide – March 2017

Each University of Rochester medical student is required to complete successfully the following in years 3 and 4.

<table>
<thead>
<tr>
<th>Academic Requirement</th>
<th>Number of Weeks</th>
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<tr>
<td>Medicine Clerkship (3&quot; year)</td>
<td>8 weeks</td>
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<tr>
<td>Surgery Clerkship (3&quot; year)</td>
<td>6 weeks</td>
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<td>Adult Inpatient Basic Science Block (3&quot; year)</td>
<td>2 weeks</td>
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<tr>
<td>Neurology Clerkship (3&quot; year)</td>
<td>4 weeks</td>
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<td>Psychiatry Clerkship (3&quot; year)</td>
<td>4 weeks</td>
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<td>Mind/Brain/Behavior Basic Science Block (3&quot; year)</td>
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<td>Obstetrics and Gynecology Clerkship (3&quot; year)</td>
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<td>Pediatrics Clerkship (3&quot; year)</td>
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<td>Women's and Children's Health Basic Science Block (3&quot; year)</td>
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<td>Third Year Comprehensive Assessment (3&quot; year)</td>
<td>1 week</td>
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<td>Elective Weeks (3&quot; and 4&quot; year total) (2 of the total elective weeks must be completed in a surgical sub-specialty)† (see below)</td>
<td>25 weeks* (see below)</td>
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<tr>
<td>Emergency Medicine (4&quot; year)</td>
<td>4 weeks</td>
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<td>Sub-Internship (4&quot; year)</td>
<td>4 weeks** (see below)</td>
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<td>Community Health Improvement Clerkship – CHIC (4&quot; year)</td>
<td>4 weeks</td>
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<td>Process of Discovery – POD (4&quot; year)</td>
<td>3 weeks</td>
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<td>Successful Interning (4&quot; year)</td>
<td>2 weeks</td>
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*MSTP students who opt to be exempt from CHIC must complete 29 weeks of electives.

**Sub-Internships are offered in: Medicine, Neurology, Ob/Gyn, Pediatrics, and Surgery including General, Pediatric Surgery, Trauma, Plastic Surgery, Vascular, Thoracic, SICU, and Orthopaedics. Sub-Internships must be completed in Rochester. Specialized Sub-Internships must be formally reviewed and approved by the student’s Advisory Dean. If a student is approved to participate in a specialized Sub-Internship, this experience will count separate from the Sub-Internship requirement outlined above (the student will participate in two sub-internships—4 weeks will counted towards sub-internship requirement and 4 weeks will be counted towards elective requirement. However, both sub-internships will appear on the transcript and be graded on Honors, High Pass, Pass, Pass Marginal, Incomplete, Fail grade scale. These requests will be carefully reviewed on whether the objectives and responsibilities of the proposed experience fulfill the overall requirements set by the Curriculum Steering Committee.

†Surgical sub-specialty electives may be completed in the areas of Anesthesiology, Otolaryngology, Gynecological Oncology, Ophthalmology, Plastic Surgery, Surgical Pathology, Neurosurgery, and Urology and are for fulfillment of 2 weeks elective requirements. Experiences completed during the third year Surgery Clerkship are not considered a part of this requirement.

Mandatory Policies for Academic Credit in Years 3 and 4

Scheduling Specialty Discipline Electives

Students may not schedule more than 8 weeks of their elective total of 25 weeks over the third and fourth years in a given discipline including any extramural (away) electives. The Rochester Double Helix Curriculum is designed to provide medical students an opportunity to obtain clinical experiences that will not be included in post-graduate training. The four weeks of required Sub-Internship weeks (those experiences that meet the Sub-Internship requirement) are not counted in the 8 week elective total per discipline. For example, a student completes 2 weeks of ophthalmology in the third year, completes 4 weeks away in ophthalmology in fourth year and an additional 4 weeks of ophthalmology in Rochester. From these 10 weeks only 8 weeks count towards fulfilling the 25 elective weeks requirement. The additional 2 weeks will be counted as non-credit. Students are expected to participate fully in and complete all registered electives appearing on their academic program.
### DOUBLE HELIX CURRICULUM GRADING POLICIES

**DHC Core and Required Clerkship Grade Definitions**

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<td>High Pass</td>
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<td>Pass</td>
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<td>P(m)</td>
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<td>Fail</td>
<td>0-2%</td>
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(Must be repeated and Pass is the highest grade that can be assigned)

Incomplete (I)  
Withdraw (W)   
Withdraw Failing (WF)  
To Be Determined (TBD)

**The following grade definitions will be used for the core and required clerkships:**

**Honors:** Academic and clinical performance rated as exceptional by all evaluators. Personal and professional qualities outstanding. Shows promise to excel in the most competitive residencies and will receive vigorous departmental support in applying for these. (In a typical year, approximately 20% of students will achieve this grade.)

**High Pass:** Academic and clinical performance rated as exceptional in several areas, at least very good in all others. Personal and professional qualities are excellent. Capable of succeeding in any residency and will receive strong departmental support. (In a typical year, approximately 30% of students will achieve this grade.)

**Pass:** Academic and clinical performance ranging from acceptable to very good in all areas (and may be exceptional in some areas). Personal and professional qualities are at least very good. No significant deficiencies. Most students receiving this grade will be capable of succeeding in any residency but will be challenged by the most competitive, and will receive strong departmental support although will be advised not to limit applications to the most highly competitive programs. Some students receiving this grade would not be comfortable or successful in the most competitive residency programs, will be advised to apply to less competitive (but still very good) residencies, and will receive departmental support. (This is the modal grade: In a typical year, approximately 50% of students will achieve this grade.)

**Pass marginal:** Some significant deficiencies identified, requiring remedial work (at the discretion of the clerkship director and the clerkship grading committee, albeit not repeat of the entire clerkship) before a Pass grade for the clerkship can be awarded. A Pass marginal can only be remediated to a grade of Pass, and must be remediated for promotion. Pass marginal will not appear on the final transcript. In a typical year, 0-5% of students will achieve this grade.

**Withdraw:** When a student has been enrolled for less than 50% of a clerkship and elects to withdraw or the student has been enrolled for greater than 50% of a clerkship and has a passing performance, the grade of Withdraw is assigned. The transcript will record the withdrawal with a ‘W’.

**Withdraw Failing:** When a student has been enrolled for at least 50% of a clerkship and elects to withdraw with a failing performance, a grade of WF should be assigned. When the clerkship is retaken and completed, the student will be assigned the grade earned in the retaken clerkship. The transcript will have the WF grade as well as the grade assigned in the retaken clerkship. For example:
To Be Determined: When students fail the NBME subject exam and need to re-take it but have an otherwise satisfactory clerkship performance.

Fail: Very significant deficiencies, requiring that the student repeat the entire Clerkship. (In a typical year, 0-2% of students will achieve this grade.)

Incomplete: Used at the discretion of the clerkship director, usually when a student who has otherwise done passing or better work has been unable to fulfill all course requirements due to extenuating circumstances. On the final transcript, the grade of “Incomplete” may be either struck out or replaced by the final clerkship grade, depending on the circumstances.

Electives are graded as Pass or Fail.

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### Extramural (Study Away) Electives

Students who have maintained good academic standing and have successfully completed all courses in the first two years may participate in extramural electives in this country and abroad. Most LCME schools have joined the AAMC Visiting Student Learning Opportunities (VSLO)/Visiting Student Application Service (VSAS). Students will be required to submit their application through the Visiting Student Application Service. VSAS charges a fee for this service. In addition, students must have completed all core clerkships prior to acceptance for a study away clinical elective at most LCME accredited medical schools. Thus, the majority of study away electives will be completed at the end of 3rd year or during the 4th year. Students may spend up to 12 weeks of clinical electives at outside institutions with the approval of their advisory dean. Extramural electives provide unique opportunities for students to gain novel experiences in other countries or acquire insights into how different academic health centers and medical schools function. Moreover, student participation in clinical electives at other hospitals allows students to not only broaden their undergraduate medical education in the clinical area of their choice, but also may provide unique perspectives on the outside hospital, its residency training programs and the location.

In order to ensure that extramural electives are equivalent in quality to those offered at Rochester, students must obtain approval from a full-time, URSMD faculty member whose primary appointment is in the same field as that of the desired elective. Since arrangements for extramural clinical electives are more complex than those for other clinical electives, students are advised to make early inquiry. Information about the required documentation and special scheduling considerations may be obtained from the URSMD registrar’s office. Students are responsible for making sure that their extramural elective evaluations are forwarded to the Registrar’s Office after completion of the elective.

Payment or acceptance of a scholarship for an elective for credit away from Rochester is prohibited. Students may, however, accept reimbursement for travel, housing and board to the extent that these are directly incurred in taking the elective. For example, payment of housing expenses would be allowed if housing must be maintained in Rochester at the same time. This restriction is in place for several reasons. First, it is important to assure that extramural electives are educational experiences. Second, we do not want to have the possibility of students finding themselves in a situation where they are expected to render service having minimal or no educational value. Third, it is critical to assure that the elective sponsor regards and will conduct the educational experience as an educational program. Finally, we want to prevent the participation of students in poor programs because of the prospect of remuneration.
In summary, extramural electives provide special clinical educational experiences. Advanced planning for participation in extramural electives is imperative, because of the additional paperwork from UR and the outside institution involved. All students are encouraged to discuss study away ideas with their Advisory Dean in their individual clinical curriculum planning meetings.

Evaluations and Educational Experiences with Family Members

To avoid the appearance of favoritism that may result from curricular experiences with family member evaluators/preceptors, students are not permitted to engage in formal (credit bearing and/or funded) educational experiences with close relatives. In addition to the core clerkships, clinical electives, PBL’s, small group assignments, students will not be allowed to participate in URSMD funded fellowships and educational experiences with family member evaluators. Whenever possible, students should not be assigned to hospitals where relatives currently practice to avoid bias in the student’s evaluation.

For the purposes of this policy, the following are considered relatives:

- Spouse, spouse’s natural and adopted children, grandchildren, and great-grandchildren; parents, step parents, grandparents, and great-grandparents; brothers, sisters, half-brothers, and half-sisters; aunts, uncles, nieces, nephews, first cousins, and second cousins; and persons married to them

Avoiding the Appearance of Bias in Evaluations Due to Prior Relationships

The Medical School expects both faculty and students to avoid situations where a previous relationship could bias evaluations, teaching or could create the appearance of bias. In case of doubt about such a situation, the student should contact his/her Advisory Dean and the faculty member must contact the Course Director.

The school views this issue as a matter of professionalism and all suspected violations of this policy will be reviewed by the MSPRB (Classes of 2006 and 2007), the Honor Board (Classes of 2008 and forward), or Department Chair.

Procedures to Avoid the Impact of Conflicts of Interest

The following policy and procedures have been implemented to avoid the impact of conflicts of interest. A faculty member or other institutional official will automatically recuse him/herself from any discussion or vote relating to a matter where there is a potential for or the existence of a conflict of interest and state publicly that there is a personal conflict.

The SMD policy and procedures to avoid the impact of conflicts of interest will be included on the agenda of all evaluation/disciplinary MSPRB, Appeals and Honor Board meetings. The voting members will be reminded that their eligibility to participate in a discussion or vote is a result of no known conflicts of interest. (Effective October 12, 2005)
Attendance in Clinical Rotations Policy

Students on clerkships (i.e., any clinical rotation) do not routinely receive any time off. Full attendance during all aspects of clerkships is expected as part of fulfilling professional role obligations regarding educational and patient care responsibilities. In the case of unexpected absences for urgent reasons (e.g., illness), the student must make every effort to notify the clerkship director, his/her administrative assistant, the senior resident and/or his/her Advisory Dean of their absence, and upon return to the clerkship must discuss the circumstances, including remediation of work missed, with the clerkship director. Time up to two days away from each rotation (no more than one day away for rotations shorter than four weeks) may be granted by the clerkship director for special circumstances as arranged in advance. It is expected that the student making such a request will do so as much in advance as practical, and will be prepared to discuss options for remediating the work that is missed. Longer time away will not be granted except under extraordinary circumstances and at the discretion of the clerkship director.

Please note that this means that fourth year students should plan their residency interviewing for open slots in their schedule; they should not plan out of town interviews while taking a clerkship.
Visiting Students

Unless otherwise noted, the clinical electives appearing in this bulletin are open to visiting students who have completed two years of pre-clinical work and one year of clinical experience at an LCME-approved United States medical school, a United States School of Osteopathic Medicine or a Canadian Medical School. Students will be required to submit their application through the AAMC Visiting Student Learning Opportunities (VSLO) /Visiting Student Application Service (VSAS). VSAS charges a fee for this service. In addition, The University of Rochester charges a non-refundable $100 administrative fee per scheduled elective. Students who attend an Osteopathic school will be required to submit their application through the Visiting Student Application Service (VSAS).

https://students-residents.aamc.org/attending-medical-school/article/students/

Criminal background checks must be submitted with application.

Only students attending an international medical school with which the University of Rochester School of Medicine and Dentistry (URSMD) has a formal exchange agreement will be considered for elective experiences. Such students must be in the final year of medical studies and will be allowed to do no more than twelve weeks of elective experiences. International students must direct their application requests to the appropriate people at their home institution to learn if their school is affiliated with the URSMD. If so, then student must apply through the appropriate home office.

University of Rochester School of Medicine and Dentistry students are given first choice of available elective openings. Thus, all visiting medical students are encouraged to select two alternate clinical electives in addition to their desired elective course when submitting an application.

Visiting students must register with the University Health Service and provide documentation of the following:

- Rubella and rubeola immunization (certificate or positive lab test)
- Results of a tuberculin test within the past 6 months and any follow-up
- Proof of hospitalization insurance coverage. If student ambulatory health coverage is not in effect away from the parent institution then ambulatory health coverage must be purchased through the URSMD University Health Service at a cost of approximately $50/month. Additional information/requirement can be found on the University Health Services web page

http://www.rochester.edu/uhs/primary-care/contact-uhs/

Housing inquiries should be directed to:

Office for Residential Life & Housing Services
University of Rochester
Rochester, NY 14627
(585) 275-3166

**Please be aware we do not guarantee housing.
Hospital abbreviations are identified below and indicate the location of the elective:

**HH:** Highland Hospital  
**RGH:** Rochester General Hospital  
**SMH:** Strong Memorial Hospital  
**PRH:** Park Ridge Hospital  
**PRO:** Private Office  
**MCH:** Monroe Community Hospital  
**STM:** Unity at St. Mary’s Hospital

Application forms may be downloaded from our Web site at:

[http://www.urmc.rochester.edu/registrar](http://www.urmc.rochester.edu/registrar)
Course Information

Contact Person
Cathy Ercolamento, 275-2143 catherine_ercolamento@urmc.rochester.edu
Class Year Name
Anesthesiology Clerkship
Class Code
ANS601
Elective Tags
Inpatient Service, Patient Care
Block Length
2 weeks
Students
3

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
They will receive an email prior to first day of rotation.
What time should students report?
Prior to the first day of rotation the student needs to page the resident/CRNA AND the anesthesiology attending they will be working with and set up a meeting time.
Who should they report to?
Their assigned resident or CRNA at the predetermined time.

Goal

To understand the aspects of Anesthesiology with which all physicians should be familiar.

Learning Objectives

By the end of the rotation the student should be able to:

- Demonstrate appropriate techniques for airway management in unconscious patients, including ventilation by mask, insertion of artificial airways and laryngeal masks, and oro-tracheal intubation.
- Manage ventilation in unconscious patients, including deciding on ventilator settings and using non-invasive monitors and arterial blood gases to determine the appropriateness of ventilation.
- Identify and interpret items on the anesthetic record with respect to their impact on post-operative care, including drugs used and fluids given intraoperatively.
- Explain the appropriate management of acute blood loss, and the calculation of maximum allowable blood loss.
- List the differential diagnosis of hypoxia and explain findings/tests which distinguish among the different causes.
- Describe the pharmacology of commonly used induction agents and narcotics.
- Discuss the appropriate use and monitoring of muscle relaxants for emergency and non-emergency intubations.
- Describe the clinical application and interpretation of EKG, pulse oximetry, and capnography.
- Discuss the appropriate use of local anesthetics, including the calculation of the maximum allowable dose, description of the signs/symptoms of toxicity, and the treatment of toxicity.
- Be familiar with common airway securing devices and how/when to use them.
• Understand the differences and indications for general versus regional anesthesia versus sedation.
• Be familiar with the common drugs utilized in the daily practice of anesthesia
• Be familiar with the common resuscitative drugs used (i.e. vasopressors, antiarrhythmics, inotropes).
• Be familiar with common diseases we encounter daily (i.e. diabetes, HTN, COPD) and how they affect
  the care we deliver. This is the focus of the PEC day-long experience.

Schedule of Activities

Students are assigned to work with an Anesthesiology resident, a CRNA, or a member of the faculty, at SMH
from 7:00 AM until 5:00 PM on weekdays.

Overnight call may be taken at the discretion of the Course Director. If students would like to assist a preceptor
overnight, allowances will be made for the student to have off during the daytime hours.

Students will perform preoperative evaluations, participate in intraoperative care, and perform postoperative
follow-up on their patients.

Procedures (such as intravenous line placement, endotracheal intubation, arterial line placement) will be
performed by the student at the discretion of the resident or attending, and only after any assigned training is
completed.

Didactic Activities

1) Morning conferences 3x a week at 06:30 - 07:00. (Breakfast usually provided.)

2) Airway workshop during first week.

3) Anesthesiology Grand Rounds on Thursday mornings from 7:00 to 8:00

4) Two sessions at the Center for Medical Simulation at SMH:
   1) Airway management workshop
   2) Crisis management in the operating room. (If scheduled)

5) Prior to the first day of the clerkship, the students will be given learning objectives and case scenarios
   relating to anesthesia. The issues raised by these cases should be researched independently by the
   student and discussed with the resident preceptor or faculty member during the course of the clinical day.

Required Reading

1. National Medical Series for Independent Study: Anesthesiology (This will be LOANED to all students to
   utilize as a reference during the rotation).

2. Select chapters from Basics of Anesthesia, 3rd ed., by RK Stoelting and RD Miller (Book can be borrowed
   from Gillies Library in the Department of Anesthesiology at SMH).

Student Evaluations

To receive a grade of PASS:

1. Students must turn in a log sheet documenting that the learning objectives have been covered.

2. Students must participate in all didactic activities.

3. Students must receive a satisfactory clinical evaluation from their preceptor(s) during the clerkship.

4. Students must complete an attendance record.
5. Students must complete the course evaluation.

6. Students must complete an evaluation of each of their preceptors.
**Course Information**

Course Director  
Richard Norris Wissler M.D., Ph.D.  
Contact Person  
Catherine Ercolamento, 275-2143, Catherine_Ercolamento@urmc.rochester.edu  
Class Year Name  
Obstetric Anesthesiology  
Class Code  
ANS603  
Elective Tags  
Inpatient Service, Patient Care  
Block Length  
2 weeks  
Students  
2  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year, International Visiting, Visiting  
Where should students report?  
3-1400 nurses station  
What time should students report?  
0700  
Who should they report to?  
page 16-7005

**Goal**

To understand the theoretical and practical aspects of pain relief for labor and delivery and perioperative safety during cesarean section.

**Learning Objectives**

By the end of the rotation the student should be able to:  
1. Perform a preanesthetic evaluation of a pregnant patient.  
2. Discuss the anesthetic implications of maternal medical conditions and formulate appropriate anesthetic plans for labor analgesia or cesarean section.  
3. Identify OB patients who require anesthetic consultation, and describe how to obtain it.  
4. Describe the anatomy and physiology of labor pain, including differences between first and second stages.  
5. Discuss the full range of labor analgesia techniques including psychoprophylaxis, parenteral narcotics, inhalation agents, epidural and spinal anesthesia.  
6. Discuss the pharmacology of local anesthetics and narcotics commonly used in epidural and spinal anesthesia.  
8. Discuss the anesthetic implications of maternal physiologic adaptations to pregnancy including anesthetic potencies, airway management, and risk of aspiration pneumonitis.  
9. Describe maternal lumbar anatomy in relation to the administration of epidural and spinal anesthesia.  
10. Perform epidural and spinal anesthetics for labor analgesia, with appropriate supervision.  
11. Perform anesthesia for cesarean section, with appropriate supervision.  
12. Describe methods of postoperative analgesia after cesarean section.  
13. Discuss the major complications of epidural and spinal anesthesia, including evaluation and treatments.

**Schedule of Activities**

Students are assigned to the OB Anesthesia Service at SMH, with hours of 7:00 a.m. to 4:00 p.m. on
weekdays. The students do not have weekend or night on-call responsibilities. The students are regular members of the clinical care team in OB Anesthesia with assigned preceptors (resident, fellow or attending anesthesiologists). The emphasis is on active participation, including procedural skills.

**Didactic Activities**

Students participate in the daily OB Anesthesia didactic sessions each weekday, with assigned readings from the assigned textbook. In addition, students discuss their learning objectives with the preceptors throughout each day.

**Required Reading**

Loaner copies of the current textbook are available. Students are encouraged to utilize the resources in the OB Anesthesia Education Office including an extensive subspecialty library, videotapes and anatomic models.

**Student Evaluations**

To receive a grade of Pass, students must turn in to the course director a learning objective log sheet and receive satisfactory evaluations from their preceptors.
Course Information

Contact Person
Cathy Ercolamento, 275-2143 catherine_ercolamento@urmc.rochester.edu

Class Year Name
Pain Management

Class Code
ANS606

Elective Tags
Consultation Service, Multidisciplinary, Outpatient Service, Patient Care

Block Length
2 wks

Students
2

An elective experience is sometimes “split” by these weeks. Is it okay to split?

No

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
they will receive an email prior to first day of rotation

What time should students report?
7:15 first day of rotation

Who should they report to?
Pain Fellow, Arrive at Pain Treatment Ctr 180 Sawgrass Dr.

Goal

To become familiar with the intricacies of pain assessment and multidisciplinary management of patients with chronic, non-malignant or malignant pain.

Learning Objectives

By the end of this short rotation student should:

1. Be able to assess a patient's pain through history, physical examination, behavioral observation and medication usage

2. Formulate patient focused and goal directed pain management plan under close supervision of a fellow /NP/ faculty member

3. Describe the major classes of pain (e.g. inflammatory, neuropathic, myofascial, Deafferentiation pain, spasticity related pain, etc)

4. Discuss the pharmacology, indications and common side effects of analgesic and adjuvant medications (e.g. opioids, NSAIDs, neuroleptics, muscle relaxants, anxiolytics).

5. Be familiar with alternative and complementary treatment modalities available for pain management including physical therapy, cognitive behavior therapy, acupuncture etc

6. Discuss common indications for interventional techniques used in the treatment of pain.

7. Perform trigger point and sacroiliac joint injections under appropriate supervision.

Schedule of Activities

Students are assigned to the outpatient pain service at the Pain Treatment Center; located at Sawgrass Surgical Center, Suite 210; working hours are from 0730 am to 1900 during weekdays. They are a part of the
multidisciplinary team comprised of residents, fellows, nurse practitioners, clinical psychologist and attending pain management faculty. They are not expected to take any inhouse or pager call during this rotation. A detailed schedule including lectures and conferences is available in the clinic.

**Didactic Activities**

Emphasis is on active participation in the following activities:

- Regular conferences on M/T/W and Friday starting at 0730. Monday conference time is variable.
- Thursday: Anesthesiology grand rounds from 0700-0800 in room K 307.
- Hands on teaching in the clinic and procedure room.
- Fluoro imaging of the spine and interventional practice on a dummy with a pain management fellow. Time flexible.

**Required Reading**

Copies of book chapters to be reviewed during the rotation can be made after consultation with the fellow. Students are encouraged to use resources available in the Gilles Library and pain office.

**Student Evaluations**

Students are responsible for keeping a log of cases and procedures he/she participates in. Students are expected to answer and review a set of case scenarios regarding the use of adjuvant medications for chronic pain. Students receive a grade depending on a composite evaluation by their preceptors.
Course Information

Contact Person
Cathy Ercolamento, 275-2143 catherine_ercolamento@urmc.rochester.edu

Class Year Name
Hemodynamic Monitoring

Class Code
ANS610

Elective Tags
Inpatient Service, Patient Care

Block Length
1 week

Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
2nd Year, 3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
See Welcome Letter, 7:00 a.m. Monday morning to the On-call cardiac anesthesiologist

What time should students report?
7:00 a.m.

Who should they report to?
On-call cardiac anesthesiologist

Goal

To master concepts in advanced cardiovascular physiology and invasive hemodynamic monitoring in the clinical setting of the operating room.

Learning Objectives

By the end of the rotation the student should be able to:

- Understand the technical aspects of arterial line and pulmonary artery catheter insertion.

- Understand the clinical applications, complications and preventative measures involved in invasive hemodynamic monitoring.

- Interpret hemodynamic data.

- Apply the hemodynamic data to the care of the surgical or critically ill patient.

- Understand the role of transesophageal echocardiography for intraoperative hemodynamic monitoring.

Schedule of Activities
Students work in the operating room at SMH under the direction of the cardiac anesthesiologist starting at 7 a.m. to approximately 5 p.m. on weekdays. Emphasis is on hemodynamic monitoring and its application to the care of the cardiac surgical patient.

**Didactic Activities**

Emphasis is on clinical experience and "bedside" teaching. One-on-one or one-on-two tutorials supplement this experience. In addition, students may participate in workshops using the anesthesia human patient simulator focusing on hemodynamic assessment and cardiovascular management.

**Required Reading**

2 Book Chapters from *Cardiac Anesthesia: Principles and Practice, 2nd Edition*, Fawzy G. Estafanous, MD; Paul G. Barash, MD; and J.G. Reves, MD., as well as supplemental documents by the University of Rochester Cardiac Anesthesia faculty.

**Student Evaluations**

To receive a grade of Pass, students must participate in clinical cases, attend tutorials sessions, document that the learning objectives have been covered, interpret and discuss case studies in cardiovascular medicine, and submit a log of their cases and attendings. Course materials will be sent via e-mail the week before the course. Students who will be on vacation that week may arrange with Susan Donahue to receive the information earlier. Essential information is contained in the Welcome Letter which is in this mailing.
Course Information

Course Director
Jason M. Rotoli M.D.
Contact Person
Tressa Newton Tressa_Newton@urmc.rochester.edu
Class Year Name
Independent Study Focusing on Deaf Health
Class Code
DHP601
Elective Tags
Research-Basic science
Block Length
Must obtain permission from Dr. Nutt before scheduling
Students
10
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Arrange with Research Advisor at NCDHR
What time should students report?
TBA
Who should they report to?
Research Advisor

Goal

Prequisites: Enrollment in Deaf Health Pathway (DHP) and completion of Deaf Health Seminars 1, 2 & 3; or permission of the Pathway Director. Follow the below steps:

1. Obtain approval from Dr. Rotoli
2. Complete application to enroll in the Deaf Health Pathway (intention to complete)
3. E-mail the DHP Director (Dr. Rotoli) and your mentor (if different) your intended elective dates as early as possible.
4. Complete and e-mail your proposed goals for completing the Pathway
   o What are your personal goals for completing the Pathway?
   o What goals have you accomplished to date—for example, completing the 3 seminars on Deaf Health.
   o What are the gaps between what you have done and your goals?
   o How will you use your elective time to bridge those gaps? Outline how you will spend your elective time over the four weeks to reach your elective goals.
? Depending on the complexity and clarity of your proposal, a meeting may be necessary prior to the start of your elective.

Students interested in completing a Deaf Health elective outside of Rochester must complete the extramural elective drop/add menu in MedSIS and receive approval from Dr. Rotoli, the Advisory Dean and the Registrar’s Office

Goal: Students will spend four weeks investigating topics of Deaf health derived from clinical, educational, linguistic, and cultural opportunities at the University of Rochester Medical Center and local community. The overall goal is for each student to develop an appropriate level of comfort and competency in working with members of the Deaf community.

Learning Objectives
To foster interest in Deaf health and expose students to pressing issues which may impact the future healthcare practices for Deaf patients. Specific objectives will be created as a part of the student’s proposal (see below), derived from clinic/hospital-based observerships (Deaf/signing clinician, patient care interpreting), mentored research or community-based projects and engagement with community-based programs.

**Schedule of Activities**

Students will arrange activities with their research supervisor at the NCDHR.

**Didactic Activities**

**Required Reading**

As appropriate to the individual project of the student. Resources collected by medical students during previous Deaf Health Pathway electives are available upon request.

**Student Evaluations**

*Upon completion of the elective* (two week deadline from end date) all items required must be submitted to the Pathway Director, Dr. Rotoli, before a final grade can be submitted to the Registrar. Grades are awarded on a Pass/Fail scale.
Course Information

Course Director
Joseph J. Fantuzzo D.D.S., M.D.
Contact Person
Vanessa Buckholz
Class Year Name
Dentistry, Oral and Maxillofacial Surgery
Class Code
DNS600
Elective Tags
Outpatient Service, Patient Care, Teaching
Block Length
2 or more weeks
Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Strong Memorial Hospital Ambulatory Care Building 4th Floor
What time should students report?
9:00 a.m.
Who should they report to?
Lisa Lord

Goal

To understand the relationship of oral health care and oral surgery to general total health care and the general practice of medicine and how oral health care and oral surgical care is inter-related with total health care.

Learning Objectives

By the end of the rotation the student should be able to:
? Perform a complete intra-oral and extra-oral head and neck examination.
? Identify the following anatomical structures in patient and on x-ray: enamel, dentine, gingiva, pulp chamber, cemetum, buccal mucosa, labial frenum, pterygo-mandibular area, palatine tonsil, soft palate, hard palate, uvula, parotid, and submandibular glands and duct orifices, anatomical spaces associated with head and neck infection.
? Recognize and diagnose basic fractures of craniofacial skeleton based on clinical and radiographic findings.
? Discuss the oral manifestations of systemic disease or its treatment in patients receiving head and neck radiation, cancer chemotherapy, bone marrow transplant, HIV infection, diabetes, autoimmune disorders, e.g. Sjoren?'s Syndrome.
? Understand the role of the oral and maxillofacial surgeon in the treatment and reconstruction of diseases of the maxillofacial region, including implants, cleft and craniofacial anomalies, and maxillofacial trauma.

Schedule of Activities

Students are assigned to the Strong Memorial Hospital, Department of Dentistry clinical facility and will work with the general practice, oral surgery and specialty providers of dental care starting at 8:30 am. They will be guided by the chief resident in Oral and Maxillofacial Surgery and General Practice Residency and work with these to examine patients, diagnose and treat dental diseases, assist in surgical procedures and attend all
Didactic Activities

Students will be oriented by the Dentist-in-Chief and Chairman of the department or Chief of the Oral and Maxillofacial Surgery Division on the first day of the rotation. They are expected to read about and discuss the learning objectives with their preceptor. Students will attend all the ongoing didactic activities in the department during the clerkship. These include resident lectures 8:00 - 9:00 am, Oral and Maxillofacial Surgery Rounds and other seminars.

Required Reading

Students will be provided with review articles in the areas related to the learning objectives on arrival in the department.

Student Evaluations

To receive a grade of Pass, students must keep a log of their activities, participate in the case conferences and seminars and receive a satisfactory evaluation from the residents with whom they work.
**Course Information**

Course Director
Maricelle U. Abayon D.M.D., M.S.
Contact Person
Maria Karvounidis 585-275-5007 maria_karvounidis@urmc.rochester.edu
Class Year Name
Hospital General Dentistry
Class Code
DNS601
Elective Tags
Outpatient Service, Patient Care, Teaching
Block Length
2 weeks
Students
2

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
4th Year

Where should students report?
Schedule will be emailed
What time should students report?
9:00 a.m.
Who should they report to?
Person listed on schedule

**Goal**

To provide dental students with a didactic and practical experience in general and hospital dentistry in an outpatient hospital general dentistry service.

**Learning Objectives**

The student should gain experience in treatment planning and treating patients with complex medical and dental needs under a variety of conditions and using a variety of patient management techniques. The objective will be achieved through the following activities:

1. Participation in all didactic activities of the Division of General Dentistry during their rotation.

2. Observation and supervised treatment of patients in the Hospital Dental Service of Strong Memorial Hospital.

3. Participation in the Consultation Service of the Eastman Dental Center.

4. Observation of treatment of general dentistry patients in the operating room.

5. Observation of treatment of patients undergoing conscious sedation by the Dental Service in the Ambulatory Center of Strong Memorial Hospital.

**Schedule of Activities**

Students will be assigned a preceptor who is a senior resident in the General Practice Residency program. The preceptor will insure that the student participates in the activities listed above.

**Didactic Activities**
Students will participate in all conferences, seminars and lectures with the General Practice residents.

**Student Evaluations**

Externs are required to keep a log of their clinical activities and attendance in didactice activities to satisfactorily complete the externship.
Course Information

Course Director
Christine Mhorag Hay M.D.
Contact Person
Tressa Newton 273-3289 Tressa_Newton@urmc.rochester.edu
Class Year Name
Writing Elective
Class Code
DPT604
Elective Tags
Teaching
Block Length
1 week
Students
2

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
4th Year

Where should students report?
Students will be notified of their assignment details via email by the end of the day Monday.

What time should students report?

Who should they report to?

Goal

To learn the craft of creating and editing lecture notes that will be included in the course syllabus, and have the opportunity to improve your understanding of the specific pathophysiology related to the diseases.

Learning Objectives

- Understand how to create a PBL and tutor guide or create/review lecture notes and work with faculty to confirm.
- Have the opportunity to improve your understanding of the specific pathophysiology related to the diseases in the PBL
Course Information

Course Director
Lindsey Brodell Dolohanty M.D.
Contact Person
Natasha Garcia 275-0193 natasha_garcia@urmc.rochester.edu
Class Year Name
Clinical Dermatology
Class Code
DRM601
Elective Tags
Outpatient Service
Block Length
2 weeks
Students
3

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, Visiting

Where should students report?
A welcome letter will be sent prior to your start date with schedule. Our locations are Ambulatory Care Facility 2nd floor Dermatology (ACF 2-0349 Dermatology), or Red Creek 400 Red Creek DR., Suite 200.

What time should students report?
9:00am

Who should they report to?
Please contact Natasha Garcia with any questions or concerns via global email, or by phone.

Goal

The student should gain a useful knowledge of how to diagnose and differentiate among common skin diseases and develop a practical understanding of the rationale for their treatment.

Learning Objectives

By the end of the rotation the student should be able to:

- Diagnose and differentiate common skin diseases
- Develop a practical understanding and rational for the treatment of common skin diseases
- Acquire the ability to gain more specific skills including the preparation and interpretation a KOH slide.

Schedule of Activities

Include patient work-ups and discussion with the instructor. Time for reading will be set aside by preceptor, and viewing of a set of teaching powerpoints.

Required Reading
Course Information

Course Director
Erik A. Rueckmann M.D.
Contact Person
Jessica Moriarty jessica_moriarty@urmc.rochester.edu
Class Year Name
Advanced Emergency Medicine Clerkship
Class Code
EDD600
Elective Tags
Patient Care
Block Length
4 weeks
Students
2
Prerequisites
EDD400 Emergency Medicine Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Student Fellow, Visiting
Where should students report?
Clerkship Coordinators office, College Town, 44 Celebration Drive, Suite 2.100. On first Day orientation Shapiro Conference Room, College Town, 44 Celebration Drive, Room 2.007A/B.
What time should students report?
This information will be sent out in the orientation email.
Who should they report to?
Erik Rueckmann, MD

Goal

GOAL:

To expand upon the experience of the Emergency Medicine Clerkship with emphasis on assuming internship-level responsibility for the diagnosis, treatment, consultation with other services, disposition of patients, and advanced procedural responsibilities commonplace in the Emergency Department.

Learning Objectives

LEARNING OBJECTIVES:

By the end of this clerkship, the student should be able to:

· Identify patients/conditions for which emergency management is indicated.

· Document in a clear and concise fashion pertinent historical and physical findings for a patient’s presenting complaint.

· Identify patients/conditions for which consultation is indicated.

· Demonstrate appropriate techniques for procedures (slit lamp exam, lumbar puncture, thoracentesis, chest tube placement, laceration repair, splinting) when indicated.

· Assist with resuscitations.

· Identify arrhythmias and address initial management.
· Discuss the differential diagnosis of emergent chest pain, respiratory distress, acute abdomen, mental status changes, shock and open fractures.

· Identify community resources (Alternatives for Battered Women, Rape Crisis, Substance Abuse Rehabilitation, Community Health Nurses, Poison Control).

· Discuss the role of the Emergency Medical Services (EMS) in Monroe County.

## Schedule of Activities

**SCHEDULE OF ACTIVITIES**

This is a patient-oriented emergency medicine experience individualized to the students' particular interest in emergency medicine.

Students will generally work 14 clinical shifts over 4 weeks and participate in 1 6-hour ambulance ride-along per 2 weeks of the rotation.

Close supervision by residents and faculty preceptors will facilitate acquisition of clinical judgment and technical skills.

Each student will be matched with an attending or third year emergency medicine resident for each shift.

Clinical shifts will be 8 hour shifts including days, evenings, and nights. Emphasis is on active participation in all aspects of patient care.

Students will have exposure to toxicology practices.

Students will gain experience with advanced procedures frequent in the Emergency Department (endotracheal intubation, central venous access, etc.)

## Didactic Activities

**DIDACTIC ACTIVITIES**

Attendance to and participation in all Thursday resident lectures and conferences will be required.

These include case conference, EKG readings, grand rounds, journal club, morbidity and mortality, research forum, toxicology conference, and trauma conference.

## Required Reading

**REQUIRED READING**


Chapters:

1 - Emergency Medical Services (pages 1-5)
8 – Cardiopulmonary Resuscitation in Adult (pages 44-48)
9 – Pediatric Cardiopulmonary Resuscitation (pages 57-64)
24 - Disturbances of Cardiac Rhythm Conduction (pages 169-192)
30 - Anaphylaxis and Acute Allergic Reactions (pages 242-246)
43 - Puncture Wounds Bites (pages 330-336)
45 – Approach to Chest Pain and Possible Myocardial Ischemia (pages 341-351)
47 – Acute Coronary Syndrome (pages 356-365)
58 – Respiratory Distress (pages 443-451)
68 – Acute Abdominal Pain (pages 515-519)
Student Evaluations

STUDENT EVALUATIONS

This is a PASS/FAIL course.

To receive a grade of satisfactory the student must maintain perfect attendance, turn in a log sheet documenting that the learning objectives have been covered, and receive satisfactory clinical evaluations from their preceptors during the rotation.
EDD609 Wilderness Medicine Elective

Course Information

Course Director
Erik A. Rueckmann M.D.
Contact Person

Class Year Name
Wilderness Medicine Elective
Class Code
EDD609
Block Length
2 wks
Students
0

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, MD/PhD in Research

Where should students report?

What time should students report?

Who should they report to?
Course Information

Course Director
Bruce Allan Barron M.D.
Contact Person
Debbie Klein, 487 - 1010, debbie_klein@urmc.rochester.edu
Class Year Name
Occupational and Environmental Medicine
Class Code
EHS601
Elective Tags
Patient Care
Block Length
2 or 4 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Strong Occupational and Environmental Medicine Calkins Corporate Park 400 Red Creek, Suite 220 Rochester, NY 14623
What time should students report?
0830
Who should they report to?
Bruce A. Barron, MD, MS

Goal

Demonstrate knowledge and skills in performing occupational and environmental clinical assessments.

Learning Objectives

Discuss the different types of services offered by occupational and environmental medicine programs (preventive, medical, and rehabilitative). Discuss the role of toxicology, industrial hygiene, and ergonomics as it relates to occupational and environmental medicine. Demonstrate an understanding of the New York State Workers' Compensation system, including successful completion of a C4 report to the Workers' Compensation Board.

Schedule of Activities

The student will participate in clinic activities within the Division of Occupational and Environmental Medicine.

Didactic Activities

There will be formal didactic sessions including lectures on hearing conservation programs and audiogram interpretations, principles of industrial hygiene and toxicology, preventive medicine, agricultural medicine, ergonomics, and occupational biopsychosocial assessments. Additionally, the student may attend monthly Occupational and Environmental Medicine Clinical Updates and Grand Rounds.

Required Reading

Students will be given pertinent reading assignments during the rotation.
parotitis, mastoiditis, invasive fungal sinusitis, pre-septal cellulitis, and basic facial trauma.

4. Learn to perform the steps of basic consult procedures at a PGY-1 level including: drainage of a peri-
tonsillar abscess, tracheostomy change, control of tracheostomy bleed, and control of epistaxis.

**Schedule of Activities**

**Rotation Structure**

**Head and Neck Team**

The Head and Neck Cancer team is typically a busy service with ICU, stepdown, inpatient floor status and consult patients based on WCC5 at SMH. General ENT consults at SMH are taken by this team every Monday / Wednesday / Friday which will provide the sub-intern with common issues seen in a tertiary hospital. The student should plan to round and present on at least four consult and postoperative patients for which they were involved in the initial evaluation and/or surgical management. The goal will be to have the student have at least one of these four patients be an ICU or step-down status patient to follow to understand the goals of critical care for ENT patients which they may see in their internship. On non-operative days, the sub-intern will participate with the residents in the Wilmot Cancer Center head and neck clinic and help with consults.

**Inpatient Specialty Service**

In the rare week that the Head and Neck team does not have inpatient operative cases or clinics (conferences, attendings on vacation, etc), the sub-I will participate with inpatient operative cases at Strong with the specialty team attendings. They will also be expected to help with Strong consults with the specialty team if participating in the ORs on Tuesdays and Thursdays. They will continue to round with the Head and Neck team and present patients on the Head and Neck service only.

**Required Reading**

**Pre and Post Service Requirements / Suggestions**

1. ENT Elective (2 weeks): students applying to ENT are strongly encouraged to participate in this two week elective either in their 3rd or 4th year to get an ambulatory experience.

2. ICU / Medicine / General Surgery: students applying to ENT are also strongly encouraged by our department to rotate for at least 2 weeks in their 4th year on an ICU / Inpatient Medicine / General Surgery service to prepare for non-ENT rotations during their intern year.

**Student Evaluations**

**Grading**

Honors, High-Pass, Pass, Fail

Grading will be based on:

1. Written feedback on daily performance, improvement throughout the rotation, preparation for rounds and OR cases, and ability to perform at a PGY-1 level will be collected from the residents, attendings, and OR/Floor staff at the end of the rotation.

2. Written feedback on student’s 30 minute talk will be evaluated based on the ability of the student to present the case in an efficient manner, ability to answer questions from our residents and staff, as well as understanding of the current literature on this topic.
Course Information

Course Director
Elizabeth Joy Brown M.D., M.P.H.
Contact Person
Jennifer Barth, (585) 273-5677, jennifer_barth@urmc.rochester.edu Susan Jones, (585) 273-5677 Susan_Jones@urmc.rochester.edu
Class Year Name
Family Medicine Elective
Class Code
FAM608
Elective Tags
Multidisciplinary, Outpatient Service, Patient Care, Primary Care, Research-Clinical
Block Length
2 or 4 weeks
Students
2
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
2nd Year, 3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
If not otherwise advised, they should report to Highland Family Medicine Center, 777 S. Clinton Avenue, Rochester, NY 14620.
What time should students report?
7:45AM
Who should they report to?
Elizabeth Brown

Goal

To develop further and refine skills in the diagnosis and management of common problems in urban, inner-city, and/or rural ambulatory community-based Family Medicine practice.

Learning Objectives

By the end of the rotation the student should be able to:
1) Diagnose and treat 20 most common presenting concerns in family practice
2) Demonstrate skills in cultural competency, including caring for patients of various races, ages, ethnicities, and socioeconomic levels
3) Demonstrate understanding of the impact of health insurance, as well as the "safety net" of care for those patients who are uninsured or underinsured, and how this affects patient care
4) Demonstrate understanding of the psychosocial and health literacy barriers to health care that may be endemic in specific populations, such as those living in the inner city
5) Demonstrate understanding of when to use ancillary health providers, such as social workers, home nursing services, outreach workers, and what services they can provide
6) Provide advocacy for patients
7) Identify and assess risk factors such as domestic violence, substance abuse, and illiteracy. Provide appropriate counseling and referral
8) Identify and learn appropriate management of common office procedures

FOCUSED EXPERIENCES AVAILABLE: (must be arranged before the elective begins, and are subject to provider availability)

- OB/Women's Health
- Inner-city, Urban, and Rural settings
- Dermatology / Procedures (as available & in combination with others)
- Refugee Health
- GLBT (gay, lesbian, bisexual, transgender) Health
- Geriatrics with possible home visits
- Deaf Community Health
- HIV

**Schedule of Activities**

The student will see patients under the supervision of urban, inner-city, or community-based family physician preceptors in the Rochester area. Practice hours vary, as do on-call arrangements. This is primarily an outpatient experience. Students will participate in resident teaching activities one 1/2-day session per week as schedule indicates.

**Didactic Activities**

At the beginning of the elective, students discuss learning objectives with the Course Director (Dr. Brown) and their faculty mentor. These objectives should be revisited (and revised, if necessary) during the course of the elective. Generally, brief case presentations to the primary preceptor, during or shortly after the patient encounter, will constitute the majority of teaching activities. It is expected that formal feedback sessions will occur at the midpoint and at the end of the elective.

**Required Reading**


**Student Evaluations**

In order to receive a grade of Passing, the student must attend all sessions, receive a satisfactory evaluation from the preceptor(s), and return his or her evaluation of the elective prior to grades being posted.
Course Information

Course Director
Elizabeth Joy Brown M.D., M.P.H.
Contact Person
Jennifer Barth, (585) 273-5677, jennifer_barth@urmc.rochester.edu Susan Jones, (585) 273-5677
Susan_Jones@urmc.rochester.edu
Class Year Name
Family Medicine Inpatient Adult Medicine
Class Code
FAM612
Elective Tags
Inpatient Service,Patient Care
Block Length
2 weeks or 4 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, MD/PhD in Research, Visiting
Where should students report?
Student will be advised by Chief Residents.
What time should students report?
student will be advised- normally report to Highland Hospital Lobby by 7 am of the day they start
Who should they report to?
Student will be advised when they receive their schedule.

Goal

To develop further and refine skills in the diagnosis and management of common problems in an inpatient medical service

Learning Objectives

By the end of the rotation the student should be able to:
1) Conduct a focused history and physical exam pertinent to the patient's presenting concerns
2) Diagnose and treat the 20 most common presenting concerns in inpatient family practice
3) Provide appropriate preventative medicine and screening to patients
4) Identify situations where consultation and referral are indicated and make those arrangements
5) Provide evidence of ability to engage in self-directed learning, including setting personal goals
6) Take primary responsibility in providing appropriate medical care to inpatients in the hospital on the medical service
7) Apply the biopsychosocial model of complete care for patients in the hospital

Schedule of Activities

The student will become an integral part of a Family Medicine resident team. In the mornings, the student will participate in inpatient rounds with the family residents during their time in the hospital. Students will be able to participate in resident teaching activities at least one 1/2 day session per week.
Didactic Activities

At the beginning of the rotation, students discuss learning objectives with their faculty preceptor and senior residents. These objectives are revisited (and revised, if necessary) during the elective. Generally, brief case presentations to senior residents and the primary preceptor, during or shortly after the patient encounters, and during inpatient rounds, will constitute the majority of teaching activities.

The students also take part in the teaching activities including morning report, noon report, and signout rounds.

Required Reading

Appropriate to the medical conditions encountered in the hospital and outpatient settings. Paulman's book, "Family Medicine Clerkship Guide," and Phillip's "Essentials of Family Medicine" will be made available to you as a reference texts while on elective.

Student Evaluations

In order to receive a grade of Passing, the student must be an active member of the resident inpatient service, receive satisfactory feedback and evaluations from residents, and their faculty preceptor, and return his or her evaluation of the elective before grades are posted.
Course Information

Course Director
Douglas Leonard Stockman M.D.
Contact Person
Elizabeth Brown, MD elizabeth_brown@urmc.rochester.edu
Class Year Name
Family Medicine in Rural Honduras
Class Code
FAM620
Elective Tags
Outpatient Service
Block Length
2-5 weeks
Students
2
Prerequisites
(ALL) MED300 Medicine Clerkship, SUR300 Surgery Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
**COMPETITIVE APPLICATION PROCESS FOR SPOTS - contact Elizabeth Brown elizabeth_brown@urmc.rochester.edu
What time should students report?
8:00 am
Who should they report to?
Dr. Stockman

Goal

To develop an understanding of medical care in a rural remote setting of a developing country, and to understand the interaction of acute medical care with public health

Learning Objectives

By the end of the rotation the student should be able to:

· Conduct a focused history and physical exam pertinent to the patient's presenting concerns, using an interpreter, if not fluent in Spanish.

· Be able to provide simple instructions in Spanish for common patient concerns, such as how to take a medication.

· Develop an understanding of how to provide medical care in a setting where no laboratory testing or imaging services are available.

· Educate non-medical community members on a health topic.

· Gain an understanding of how to do a community assessment.

· Provide evidence of ability to engage in self-directed learning, including setting personal goals.

Schedule of Activities
The student will see patients at the clinic in San José, San Marcos de Sierra, Honduras, under the supervision of a faculty family physician. The nearest hospital is a two-hour drive away on a rough dirt road. Students are expected to see patients during the day and to contribute to oncall coverage at night, which includes obstetrical services. Afternoons are spent, first for one half of the group and then for the other, in community health activities in the surrounding villages.

This elective is only offered for two weeks in October and April; the exact times of the trips will vary year to year.

**Didactic Activities**

Prior to the trip, there will be 1-3 meetings of all those participating in the trip. The student MUST be able to attend these sessions. These meetings include reports on what has been done at the site previously, as well as the goals for the current trip. In addition, repacking and distribution of medications and supplied donations occurs at these meetings. The student is expected to be able to complete assigned preparticipation reading material to gain a better understanding of the culture and region. Following the trip, there is a post-trip debriefing that the student is required to attend.

**Required Reading**

As assigned by Dr. Stockman.

**Student Evaluations**

In order to receive a grade of Pass, the student must attend all pre- and post-trip sessions, participate in the entire trip, and receive a passing evaluation from the Family Medicine faculty.
Schedule of Activities

Schedule
The FM inpatient service at Highland Hospital has several components, caring for hospitalized adults on the medicine service, low-risk obstetrics patients on Labor and Delivery, and their newborns in the nursery. The Sub-internship experience includes all of these components, outlined here and described in more detail below.

- First 2 weeks: Inpatient medicine team C
- Second 2 weeks: Inpatient medicine team C and newborn nursery
- Inpatient OB- as schedule allows and patients in labor in afternoons and 1 evening per week. Goal 4 deliveries for 4 week long rotation.

Supervising team consists of an R3, R2, R1 and FM attending

The team admits all patients who receive their primary care at Highland Family Medicine, Brown Square Health Center. The team takes admissions until 4 PM daily including the weekend. The sub-intern will follow the same schedule as the team.

New admissions are assigned by the R3 between the sub-Intern, R1, and R2. Initial patient load will start with 2 patients and then increase to up to 4 patients consistent with typical R1 workload at the beginning of the year. The sub-intern’s assignment will not exceed 5 patients total.

Duties: The Sub-Intern is responsible for writing the admission note and all orders for their patients, and having them cosigned by the R3. The sub-Intern is responsible for daily rounding on their patients, communicating with attending and specialists and creating sign out document to night coverage. Sub Intern is first call for their own patients. On afternoons when the R1 or R2 is in clinic, the sub-intern will share first call for resident patients as well, with the R3 and FM attending as back up.

Schedule: Team rounds take place at 9:30 every morning and sub-Intern will be responsible for presenting their patients during rounds.

Call and weekends: The sub-intern will take call with the team. The sub-Intern will work one weekend day (when the R3 is rounding) and have the other weekend day off.

Obstetrics and Newborn rounding

Supervising team consists of the FM OB attending, FM resident CCP for the mother and newborn.

Starting during week 3, the sub-intern will also be responsible for rounding on up to 2 newborns per day, assigned after discussion with the FM OB attending on call. Rounds will be done between 8:30-9:30 with the OB attending on call and will not conflict with medicine rounding. Sub-Interns will be responsible for pre-rounding and note writing on these patients.

As obstetrics is unpredictable there will not be scheduled time devoted to being on the labor floor but rather in consultation with FM OB attending on call will involve students in labor and delivery management of FM patients with goal of students being involved with 4 deliveries during the 4-week rotation. Due to medicine team responsibilities this will be an option in the afternoons and up to 1 evening per week.

Work hours and coverage:

*Student will be required to have 12 hours off if they stay late for a delivery before may come in to round on medicine team. It will be the student’s responsibility to communicate proactively with the Team C attending and senior resident in this case. *

When the Sub-intern is participating in the care of a laboring patient or required by duty hours to be away from the medicine service, they will be expected to sign out their medical patients to the senior Team C resident, just as FM residents do when they manage continuity patients on OB.
Didactic Activities

Teaching:

The sub-intern would attend teaching conferences with the resident team, including:

- FM morning report on Mondays from 7:30 – 8:30 on East 4. The sub-intern will present one case during the rotation.
- Noon conferences on South 5 (lunch included)
- Sign out rounds at 4 PM in the Napadano room
- Thursday afternoon FM teaching every other week may be included if the service is light

Student Evaluations

Evaluations:

Sub-interns are evaluated by their supervising residents, interns, and attending physicians using the on-line system. Grades are assigned by the sub-internship director based on these evaluations.
Course Information

Course Director
Constantine George Haidaris Ph.D.
Contact Person
Katie Libby Katherine_Libby@urmc.rochester.edu
Class Year Name
Teaching Tutorial in Host Defense
Class Code
HDC601
Elective Tags
Teaching
Block Length
1-3 weeks
Students
12
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
To be arranged
What time should students report?
9:30 am
Who should they report to?
Dr. Haidaris

Goal

*Note* You are able to sign up for more than one week of elective credit, however, you will have to submit a separate add request for each one.

To give the student an opportunity to revisit the course content taught in Host Defense. To allow the student an opportunity to teach medical students in the Problem Based Learning or Small Group setting.

Learning Objectives

1. The student will have reviewed relevant Host Defense Material.
2. The student will have taught in either the PBL or lab setting.
3. The student will have assessed the performance of the students they taught.
4. The student will have developed a teaching module for Host Defense.

Schedule of Activities

*Note* You are able to sign up for more than one week of elective credit, however, you will have to submit a separate add request for each one.

The student will be responsible for attending the preparation meetings for the labs or PBLs they will teach. Participants will be responsible for a written evaluation of the students to be given in a timely manner. Students are expected to attend any lectures in Host Defense that will benefit them.

Didactic Activities
Assist with either test preparation, PBL case preparation, and laboratory improvement.

The student will teach in the PBL or lab setting. They will develop a module to be used in Host Defense. This module could be for a small group activity, a laboratory or a PBL case.

**Required Reading**

The preparation reading for the PBL or labs they will teach. Any reading necessary for the development of the teaching module.

**Student Evaluations**

The students will be evaluated by their performance as judged by their evaluations of the students, and student evaluation of them.
LHP605 Interpretive Services Experience

Course Information

Contact Person
Email Dr. Cubillos (Jimena_Cubillos@urmc.rochester.edu) and Tressa Newton with anticipated dates of participation within 1 month of requested date.
Class Year Name
Interpretive Services Experience
Class Code
LHP605
Elective Tags
Patient Care
Block Length
2 weeks
Students
0
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?

What time should students report?

Who should they report to?

Goal

BLOCK LENGTH: 2 Weeks

DATES OFFERED: Students must contact Dr. Cubillos before scheduling.

PREREQUISITES: Enrollment in Latino Health Pathway (LHP) and completion of Latino Health Seminars 1, 2 & 3

Follow the below steps:

1. Complete application to enroll in the Latino Health Pathway (intention to complete)
2. Receive at least a high intermediate score on the Language Line Assessment
3. Complete Latino Health Seminars 1, 2 & 3
4. E-mail the LHP Director (Dr. Cubillos) and Tressa Newton your intended elective dates as early as possible.

Goal: To expose students to Spanish speaking patients from various countries so they can be exposed to different dialects and increase their understanding of medical and colloquial Spanish.

Description: This is a 2 week elective set up with the Spanish interpreters through SMH Interpreting Services. The student will shadow the medical interpreter whenever interpreting services are needed on campus. The student will not be interpreting for patients.

Learning Objectives

1. To increase medical and colloquial Spanish vocabulary.
2. To expose students to communication barriers that exists in the Latino community.
3. To improve proficiency of comprehension by exposure to different dialects.
Required Reading

To be determined.
Course Information

Course Director
Anthony P. Pietropaoli M.D.
Contact Person
Bill Fuller 275-2050 willard_fuller@urmc.rochester.edu
Class Year Name
Medical Intensive Care Unit
Class Code
MED605
Elective Tags
Inpatient Service, Patient Care
Block Length
2 or 4 weeks
Students
2
Prerequisites
MED300 Medicine Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Please call or e-mail Bill Fuller a few days prior to the start of the rotation for details.
What time should students report?
8 AM
Who should they report to?
TBD

Goal

At the end of this rotation, the student should be able to articulate the initial diagnostic approach to and management of patients with acute hypoxemic respiratory failure, acute on chronic respiratory failure (e.g. exacerbation of COPD), acute respiratory distress syndrome (ARDS), sepsis and septic shock, and multisystem organ dysfunction. Basic principles of ventilator management including basic ventilator settings and trouble shooting will also be expected.

Learning Objectives

The student will join the Medical Intensive Care Unit Team at Strong Memorial Hospital. The MICU Team consists of an Attending, Fellow, and Interns and Residents in Internal Medicine or Emergency Medicine and manages all patients in MICU on 8-1600 and step-down patients on 8-3400. The student will accompany the team on rounds and assist the intern/resident team with new admissions during the day. Opportunities for night call will also be available. The student will be expected to write thorough but succinct admission notes and daily progress notes on their patients, and present their patients to the Attending and Fellow during formal work rounds in the morning and informal afternoon/evening rounds. The student will not be expected to write orders or perform procedures (e.g. central line insertion), but can assist the intern/resident team. The student will be expected to provide a 5-10 minute overview of evidenced based management of one of his or her cases once per week on rounds (total of two presentations). The student may have the opportunity to participate in family meetings at which end-of-life care is discussed. Student will be expected to attend regularly scheduled conferences (e.g. City Wide Chest Conference on Wednesday morning, and Pulmonary Clinic Conference Fridays at noon, and Critical Care Conference), and may also have the opportunity to present an interesting case at these conferences.
**Schedule of Activities**

Daily rounds five days per week on the MICU beginning at 8 a.m. ending by about 11:30 a.m. Evening work rounds at about 5 p.m.

**Didactic Activities**

Formal didactic sessions include City Wide Chest Conference on Wednesday morning, and Pulmonary Clinic Conference Fridays at noon. Informal teaching sessions as part of rounds and daily lectures by the attending or fellow.

**Required Reading**

**Student Evaluations**

Student's performance will be graded by: (i) their participation in rounds and ability to complete a coherent admission notes and daily progress notes in a timely basis; (ii) direct observation of their clinical skills including history taking and physical exam; and (iii) effectiveness as a team player.
Course Information

Contact Person
Matthew Gorgone (845) 662-1291 Matthew_gorgone@urmc.rochester.edu

Class Year Name
Bedside Procedure and Ultrasound Elective

Class Code
MED614

Elective Tags
Inpatient Service, Patient Care

Block Length
1 week

Students
1

Prerequisites
MED300 Medicine Clerkship

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year

Where should students report?
Email course director before the Friday before the rotation starts to coordinate meeting time/location

What time should students report?
7:30am for morning report. Will meet with course director 8:30/8:45 after it ends

Who should they report to?
Course director.

Goal

Goal: To increase exposure to the common bedside procedures internal medicine providers are able to perform. Begin to use ultrasound for procedural guidance and as an adjunct to the physical exam.

Learning Objectives

Learning objectives: By the end of the clerkship the students should be able to:

1. Understand the indications, contraindications, complications and consent process for paracentesis, thoracentesis, central line insertion, and lumbar punctures.
2. Know appropriate fluid analysis studies to order for each procedure, including post-procedure imaging to evaluate for complications.
3. Interpret fluid studies for paracentesis, thoracentesis, and lumbar puncture in the clinical context of each patient
4. Understand the principles of ultrasound guided peripheral IV placement
5. Use ultrasound to evaluate for pleural effusion, ascites, and venous access sites.
6. Independently gather supplies necessary for each procedure
7. Know what ultrasound probe to select based on what organ system/exam you are trying to perform
8. Use point of care ultrasound (POCUS) in the assessment of the undifferentiated admission and ongoing care of hospitalized patients
9. Correlate physical exam findings with bedside ultrasound findings.
Schedule of Activities

**Schedule of Activities:** Students will work with the procedural hospitalist on service for an average of 8 hours/day. The day’s schedule will be variable based on the number of procedures that are being requested, but generally students should spend time in the morning reviewing procedural and ultrasound videos, as well as doing recommended reading associated with each procedure. Students observe procedures performed by residents or the course director early on, and will be an active participate in procedures as the elective progresses. Most procedures will occur late morning or during the afternoon, so arriving to the hospital later in the morning to make up for time spent staying late is acceptable. Students will be expected to assess new admissions alongside the procedural hospitalist (Direct observation of history taking, examination, and POCUS exam) to learn targeted ultrasound examination and correlation with physical exam findings. There will be no note writing responsibilities.

Didactic Activities

**Didactic Activities:** Students should attend internal medicine morning report (7:30-8:30am) three days per week, and medicine noon conference if not performing procedures (12-1pm). Sign out rounds (4-4:30pm) is optional, but attendance is suggested if not involved in a procedure. Students may participate in emergency medicine quality imaging review if the procedural hospitalist is attending, which is 1-2 hours on Thursday afternoons.

Required Reading

**Didactic Activities:** Students should attend internal medicine morning report (7:30-8:30am) three days per week, and medicine noon conference if not performing procedures (12-1pm). Sign out rounds (4-4:30pm) is optional, but attendance is suggested if not involved in a procedure. Students may participate in emergency medicine quality imaging review if the procedural hospitalist is attending, which is 1-2 hours on Thursday afternoons.

Student Evaluations

**Student Evaluations:** To receive a grade of Pass, students track all of the procedures they witnessed or performed, as well as demonstrate ultrasound use for either procedural guidance or focused POCUS of a single body system at the end of the rotation.
**Course Information**

Contact Person  
susan_darby@urmc.rochester.edu
Class Year Name  
Geriatrics
Class Code  
MED615
Elective Tags  
Multidisciplinary, Outpatient Service, Patient Care, Primary Care
Block Length  
2 weeks. Email Dr. Lisa Vargish for approval
Students  
1
Prerequisites  
MED300 Medicine Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No
Available to the following medical students:  
3rd Year, 4th Year, Resident
Where should students report?  
Students will report to Monroe Community Hospital 435 E. Henrietta Rd
What time should students report?  
Schedule will dictate
Who should they report to?  
U/R Medical Administration 2nd Floor, Faith Building, 2W Susan Darby 760-6353

**Goal**

This is a two week elective designed to expose students to geriatrics in various care settings in the Rochester community and to allow students to understand the medical and biopsychosocial needs of the aging population and apply the principles of geriatrics into clinical practice.

**Learning Objectives**

By the end of the rotation the student should be able to:
Distinguish normal from pathologic aging.
Demonstrate appropriate communication and interpersonal skills when interacting with older adults.
Perform an appropriate physical exam with attention to physical signs of aging, functional assessment and mental status.
Recognize early reversible signs of geriatric syndromes and identify appropriate interventional strategies to prevent/postpone institutionalization.
Describe the work up and management of common geriatric syndromes such as dementia, delirium, falls, urinary incontinence, malnutrition and polypharmacy.
Actively participate as a team member in the Geriatric Assessment Clinic and in the care plans of the nursing home and rehabilitation patients.
Experience various community resources available for the care of older adults at home.

**Schedule of Activities**

Schedules will be provided upon arrival to the rotation

**Didactic Activities**
Students will participate in didactic sessions in the Division of Geriatrics including weekly Geriatric Grand Rounds, Geriatric Journal Club and Fellows' Conference.

**Required Reading**

Will be sent via email with schedule

**Student Evaluations**

Preceptor evaluations
Course Information

Contact Person
Michelle Snyder, 5-4290, Michelle_snyder@urmc.rochester.edu
Class Year Name
Clinical Cardiology
Class Code
MED630
Elective Tags
Consultation Service
Block Length
2 weeks
Students
2
An elective experience is sometimes “split” by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Monday mornings first day to Cardiology Morning Report, in the Cardiology Conf Room, G1460 offices.
What time should students report?
8:00 AM
Who should they report to?
Consult Team Fellow at Morning Report on first day

Goal

To instruct students in general aspects of clinical cardiology, and to give them familiarity with techniques used in this discipline, especially electrocardiography.

Learning Objectives

By the end of the rotation the student should be able to:
Have a knowledgeable approach to the patient with cardiovascular disease, and be able to take a cardiovascular history and perform a physical examination.
Be familiar with the major diagnostic categories of cardiovascular disease, and have information about the diagnostic approaches and therapy of these conditions.
Have considerable information about interpretation of electrocardiograms, and some familiarity with other specific diagnostic tests, including treadmill exercise, Holter monitoring, echocardiography, nuclear cardiology tests, and cardiac catheterization.
Develop an approach to preventative cardiology, a discipline with which all physicians should be familiar.

Schedule of Activities

On first day of rotation, go to Room G-1460 next to patient discharge for Morning Report at 8 AM.

Students make rounds with faculty members of the Clinical Service at Strong Memorial Hospital. There are ample opportunities to work up individual cases, to attend conferences, and to learn from faculty about diagnostic testing, especially electrocardiography.
Didactic Activities

The Cardiology Unit has a full schedule of conferences, most of which will be instructive to students and of interest to them. There are also frequent one-on-one instruction sessions with faculty of the Clinical Service, especially in the area of electrocardiography.

Required Reading

None specifically required, but the textbooks by Braunwald and by Hurst are an excellent source of reference material.

Student Evaluations

Grades for overall course performance are given at the end of the rotation by course directors.
Course Information

Contact Person
Dr. Eugene Storozynsky 585-273-2703 Eugene_Storozynsky@urmc.rochester.edu
Class Year Name
Heart Failure Management
Class Code
MED634
Elective Tags
Consultation Service, Inpatient Service
Block Length
2 weeks
Students
1
Prerequisites
MED300 Medicine Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
G1460
What time should students report?
9am
Who should they report to?
Fellow on Service

Goal
To instruct the students in the proper medical and surgical management of inpatients and outpatients with chronic and acute heart failure.

Learning Objectives
By the end of the rotation the student should be able to:

1. Understand the initial evaluation of the patient with new-onset heart failure.
2. Understand the treatment options for acute heart failure
3. Select proper medical therapy for patients with heart failure
4. Understand the proper role of inotropic therapy, cardiac transplantation, and ventricular assist devices
5. Appreciate the epidemiology of heart failure
6. Understand the important role of preventive measures in treating patients with heart failure, or those at risk for heart failure
7. Understand the different causes for cardiomyopathy
8. Appreciate the differences between patients with heart failure with and without preserved systolic function.

Schedule of Activities
Students will round with the inpatient heart failure and transplantation attendings and will also be able to attend the heart failure outpatient clinics. Attendance at diagnostic procedures such as right heart catheterizations and coronary angiography will be encouraged and students may also observe cardiac transplantations when they occur.
<table>
<thead>
<tr>
<th><strong>Didactic Activities</strong></th>
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<tbody>
<tr>
<td>The cardiology unit has a full schedule of conferences including a weekly heart failure and transplantation conference. There are also frequent one-on-one instruction sessions with faculty of the Clinical Services.</td>
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<table>
<thead>
<tr>
<th><strong>Required Reading</strong></th>
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<tbody>
<tr>
<td>None specifically required, but journal articles on recent topics of interest will be distributed regularly.</td>
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<table>
<thead>
<tr>
<th><strong>Student Evaluations</strong></th>
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<tbody>
<tr>
<td>Grades for overall course performance are given at the end of the rotation by course directors.</td>
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</table>
Course Information

Course Director
John D. Bisognano M.D., Ph.D.
Contact Person
Michelle Snyder michelle_snyder@urmc.rochester.edu, 275-4290
Class Year Name
Outpatient Cardiology
Class Code
MED635
Elective Tags
Outpatient Service, Patient Care, Primary Care
Block Length
2 weeks
Students
1
Prerequisites
MED300 Medicine Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Students should email Dr. Bisognano one week prior to start of course to arrange starting point.
What time should students report?
8:00 a.m. -- Generally at Cardiology Morning Report
Who should they report to?
John Bisognano

Goal

To develop an in-depth understanding of the evaluation and treatment of patients with conditions commonly seen in the outpatient cardiology setting. This includes chest pain, heart failure, hypertension, chronic coronary disease management, as well as risk factor treatment. Also, to become familiar with the diagnostic and therapeutic options available for patients with cardiovascular disease. Students will also be assigned to general cardiology outpatient clinics but will also have the opportunity to spend time in procedural and specialty areas as time permits.

Learning Objectives

By the end of the rotation the student should be able to:

1. Understand the goals in treating patients who present to the outpatient setting with cardiovascular issues
2. Perform appropriate evaluation in patients with cardiovascular complaints
3. Construct a treatment approach for patients with cardiovascular complaints
4. Understand appropriate selection of cardiovascular diagnostic tests
5. Recommend appropriate medical and surgical treatment for patients with cardiovascular disease

Schedule of Activities

Students will attend clinic with cardiology faculty including members of the hypertension program, preventive cardiology faculty, general cardiology faculty, as well as interventional cardiologists involved in the treatment of peripheral artery disease. Students may also round, on infrequent occasion, on the inpatient cardiology and vascular services whenever there are patients of interest in the hospital. There will be additional opportunities to attend clinical conferences and to spend time in the vascular, cath, testing, and electrophysiology laboratories.
Didactic Activities

The Cardiology Division has a full schedule of conferences, and most will be of interest to students in this rotation. There will be frequent one-on-one instruction with faculty of the Clinical Services.

Required Reading

None specifically required, but journal articles of interest will be distributed throughout the rotation.

Student Evaluations

Grades for overall course performance are given at the end of the rotation by course directors.
Course Information

Contact Person
Barbara Morabito 273-4628 or 275-2901 barbara_morabito@urmc.rochester.edu

Class Year Name
Clinical Endocrinology - Metabolism

Class Code
MED643

Elective Tags
Consultation Service, Inpatient Service, Outpatient Service, Patient Care

Block Length
2wks or 4wks

Students
1

Prerequisites
MED300 Medicine Clerkship

An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
Contact our office by phone for specific instructions 273-4628

What time should students report?
9:00 A.M.

Who should they report to?
"endocrine fellow on-service" and/or Barb Morabito

Goal

To become more knowledgeable regarding the diagnosis and treatment of endocrine diseases. This course offers exposure to a large variety of endocrinologic issues as they are managed primarily in the outpatient setting. The rotating student will also be able to take advantage of inpatient consult service, and will participate actively in the academic conferences offered by the division.

Learning Objectives

By the end of the rotation the student should be able to:

· Perform appropriate endocrine exams.

Discuss the purposes of endocrinological tests and when to appropriately order them.

· Demonstrate the ability to integrate the history, physical exam, and lab results in order to reach a practical diagnostic conclusion in patients with endocrinologic conditions.

· List the available treatment options for the management of diabetes, thyroid and pituitary disease as well as the other endocrinologic disorders encountered and how to apply them.

Schedule of Activities

Student will spend 5 days/week either in the Endocrine Clinic, rotate in the Neuroendocrine Multidisciplinary Clinic, participate to the Endocrine Consult Service, or at Endocrine Unit Conferences. 4th year URSMD students may be scheduled with patient(s) (NPV only) during the Thurs (Diabetes) and Friday (General Endo) PM clinics. Electronic clinic notes will be done using eRecord and "routed" to be signed by the endocrine supervising MD. It is important that all notes are "routed" and "reassigned" to the supervising Attending. 3rd year URSMD or foreign students may be reassigned patients from the fellows/resident schedule at the
discretion of the supervising attending. In both the clinic and on the consult service he/she will work closely with an assigned faculty preceptor and the fellows and housestaff assigned to the endocrine service. There are 2-3 teaching conferences each week.

**Didactic Activities**

- Daily teaching rounds
- Journal club (twice monthly)
- Thyroid Multidisciplinary Conference (once monthly)
- Citywide clinical case discussion (once weekly)
- Core curriculum conference series (once weekly)
- Scientific Research Conference (once monthly)

**Required Reading**

The endocrine section of one of the standard textbooks of medicine.

**Student Evaluations**

To receive a grade of Pass the student must successfully demonstrate proficiency of the learning objectives, attend all sessions, maintain a logbook of patients seen, and receive a passing evaluation from the preceptor.
Course Information

Course Director
Danielle E. Marino M.D.

Contact Person
Jessica DeLaura, 273-3913 jessica_delaura@urmc.rochester.edu

Class Year Name
Clinical Gastroenterology

Class Code
MED645

Elective Tags
Consultation Service, Inpatient Service

Block Length
2 weeks

Students
2

An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes

Available to the following medical students:
3rd Year, 4th Year, Visiting

Where should students report?
ACF-4, front desk GI Division. Ask for GI consult fellow.

What time should students report?
8AM

Who should they report to?
GI consult fellow

Goal

Broad exposure to common GI and Liver diseases with focus on diagnostic evaluation and management, GI symptom evaluation, and GI emergency management, in both the outpatient and inpatient settings.

Learning Objectives

By the end of the rotation the student should be able to:
- Learn to identify those patients for whom gastroenterology or liver disease consultation may be beneficial both for acute care consultation and long term management.
- Learn how to provide optimal information in obtaining gastroenterology and liver disease consultation; learn how to facilitate a more successful consultation.
- Understand the pathophysiology of peptic ulcer disease in settings of H. pylori infection, acid hypersecretion, and use of injurious drugs (i.e. NSAIDS). Also learn the current approaches to diagnosis and treatment of these disorders.
- Learn the pathophysiology, clinical presentation, diagnosis, and inpatient treatment of major inflammatory bowel disorder presentations.
- Understand the clinical presentation, risk factors, triage process, medical and endoscopic management of acute upper and lower gastrointestinal bleeding.
- Understand the pathophysiology, diagnosis, and treatment of common liver diseases including viral hepatitis, fatty liver disease, autoimmune liver disease, sclerosing cholangitis, and PBC.
- Review the clinical presentation, etiology, differential diagnosis, and inpatient management of acute chronic abdominal pain.
- Review the clinical presentation, etiology, differential diagnosis, and inpatient management of acute diarrhea.
- Learn the indications for proper use of endoscopic procedures including EGD, colonoscopy, flexible sigmoidoscopy, ERCP, and endoscopic ultrasound in gastrointestinal practice.
- Review and strengthen those areas of physical diagnosis pertaining to gastroenterology.
Learn diagnosis and management of acute and chronic pancreatitis and their complications

Schedule of Activities

Students will be assigned predominantly to the inpatient GI/Hepatology consultation service at Strong Memorial Hospital. Any student who is interested in having exposure to outpatient GI/Hepatology clinics can contact the course directors to arrange for this in advance. Activities are generally from 8 a.m. to 5 p.m., Monday thru Friday. There are no on-call responsibilities and no weekend rounds.

Students should page the on-call GI fellow at 8am on the first morning of their rotation or arrive on AC4 in the GI fellow’s room. Students will be assigned to evaluate new inpatient consultations, formulate a differential diagnosis and initial management plan. This should be reviewed with the GI fellows on consult service and then should be presented on daily rounds with GI attending.

Didactic Activities

Students will attend the formal didactic lectures of the Strong Memorial Hospital Gastroenterology division. The following are the weekly GI/Hepatology conferences which the students are highly encouraged to attend alongside the GI fellows and attendings:

- **Monday @ noon:** Guidelines review (AC4 conference room) or Pathology conferences (Ground floor Pathology Department)
- **Wednesday @ 7am:** GI Clinical Conference (AC2 conference room)
- **Wednesday @ noon:** Board Review or Interesting Case Conference or IBD Case Conference (AC4 conference room)
- **Thursday @ 7am every other month:** Physician Morbidity & Mortality Conference (AC2 conference room)
- **Thursday @ noon:** Liver Pathology (1st Thursday of the month; WCC 2-0727) or Journal Club (AC4 conference room) or Radiology Conference (AC4 conference room)
- **Last Thursday of every month at 7am:** IBD LIVE- teleconference with other IBD centers throughout the country (AC4 conference room)

Students will also participate in once weekly 30-minute interactive teaching sessions led by an upper level (off-service 2nd year) fellow, usually done on Friday. These sessions will be dedicated to working through a case, which will expand on a high-yield inpatient GI topic. The details of the case will be provided to the fellow leading the session. The goal of this case-based session is to create an interactive dedicated teaching experience that serves as a learning opportunity for the medical students, residents and fellows. Students are asked to touch base with the GI fellows at the beginning of their rotation to discuss timing and location of these sessions, which will generally be on Tuesday and Friday afternoon, as there are no other conferences scheduled on these days.

Students may also be asked to make brief didactic presentations on clinical rounds pertinent to patients they are following. These will be assigned by the on-service GI attending or fellows.

Required Reading

The GI and Liver section of Cecil's Essentials of Internal Medicine is an excellent foundation for a broad overview of the field. Students may utilize more specific in-depth resources when reading more focused and selected topics pertaining to their patient encounters, such as Harrison's *Principles of Internal Medicine*, or *Sleisenger and Fordtran's Gastrointestinal and Liver Disease*.

**Additional Resources:**

GI/Hepatology societal practice guidelines provide a comprehensive reference for diagnosis and management
of a variety of conditions which will be encountered throughout the rotation. It is important to note that these
guidelines are written for the level of understanding of the practicing gastroenterologist and that students of this
course are not expected to fully master these guidelines.

- AGA Guidelines: http://www.gastro.org/guidelines

An excellent on-the-go resource of high-yield topics is Pocket Medicine: The Massachusetts General Hospital
Handbook of Internal Medicine (Pocket Notebook) by Marc S. Sabatine MD MPH

Students may also look at blackboard for additional resources which will be added over time.

**Student Evaluations**

Students are favorably evaluated for their enthusiasm, interest, sense of responsibility, and demonstrated
capacity to present an organized history, exam, and assessment of clinical consultations. The GI fellows are
integral to formulating student evaluations.
**Course Information**

Contact Person
Stephanie Green, 922-5133, stephanie.green@rochesterregional.org

Class Year Name
Clinical Gastroenterology

Class Code
MED649

Block Length
2 - 4 weeks

Students
1

Prerequisites
MED300 Medicine Clerkship

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year

Where should students report?
Room B5010 - Rochester General Hospital

What time should students report?
8:30 to 8:40 a.m.

Who should they report to?
Bernie Porter, NP/Marcy Soprano, NP

**Goal**

To increase the student's familiarity with gastrointestinal, hepatic, and nutritional diseases.

**Learning Objectives**

By the end of the rotation the student should be able to:

GENERAL:
Be able to evaluate patients with common gastrointestinal symptoms.

Develop a familiarity with the common drugs used in gastrointestinal disease, both prescription and over-the-counter, understand their action, the situations for which they are used, their potential side effects, and their cost to the patient.

Become aware of the spectrum of procedures performed by a gastroenterologist, and understand the indications, alternatives and potential complications of each.

Identify patients/clinical situations for whom/which consultation with a gastroenterologist is indicated.

SPECIFIC:

Develop a reasonable diagnostic approach to both the acute and chronic gastrointestinal bleeder.

Become familiar with the treatment of gastroesophageal reflux disease and peptic ulcer disease.

Be aware of the populations at risk for colon cancer, and the manner in which they are screened.

Discuss the clinical and serologic features of viral hepatitis.

Learn the differential diagnosis of chronic liver disease, and develop a methodical approach to the evaluation of abnormal liver function tests.

Develop an approach to the patient with acute or chronic abdominal pain.

Understand the mechanisms of diarrhea, and how to evaluate patients with this symptom.

Become familiar with the clinical features of inflammatory bowel disease, the methods of evaluation, and the available therapy.

Understand the objectives of nutrition support, including nutrition assessment and development of both enteral and parental nutrition prescriptions.
Schedule of Activities

Students are assigned to the Gastroenterology Unit at Rochester General Hospital from 8:30 am to 5:30 pm on weekdays. They work with three attending gastroenterologists and participate in the out- and in-patient consultative service. Students observe gastrointestinal procedures including diagnostic and therapeutic upper and lower endoscopy, ERCP and liver biopsy. They have the opportunity to attend the daily noon conferences in the Department of Medicine for the residents, as well as Medical Grand Rounds on Thursday at 8:30.

Didactic Activities

Each patient seen is discussed with an attending, and independent reading about these patients is expected. Selected pathology slides will be reviewed with the pathology department. The student will be expected to give a weekly, 20-minute presentation on a topic pertaining to a patient seen that week. They are encouraged to attend the monthly Gastroenterology clinical conference when it is given during the time they spend on this elective.

Required Reading


Selected review articles will be provided to the student. All the texts listed are available in the Gastroenterology Unit and in the medical library.

Student Evaluations

To receive a passing evaluation, the student must present a weekly conference. In addition, through patient assessments, case presentations and write-ups, they will demonstrate to their preceptors that they have gained the knowledge stated in the objectives.
Course Information

Course Director
Alissa J. Huston M.D.
Contact Person
Dina Henchen 275-4797 Dina_Henchen@urmc.rochester.edu
Class Year Name
Hematology
Class Code
MED653
Elective Tags
Consultation Service, Inpatient Service, Multidisciplinary, Outpatient Service, Patient Care
Block Length
2 weeks or 4 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Student Fellow, Visiting
Where should students report?
Variable. This information will be provided to the students upon registration.
What time should students report?
8 a.m.
Who should they report to?
Alissa Huston, M.D.

Goal

Students will become familiar with both malignant and benign diseases of the blood. Students will be encouraged to consider a career in hematology and to develop an interest in cancer research.

Learning Objectives

At the end of the elective the student will be able to:

1. Interpret peripheral blood smears and bone marrow morphology.
2. Describe the significance of disturbances in blood counts
3. Describe the rationale for ordering tests for bleeding and thrombotic disorders
4. Interpret tests for bleeding and thrombotic disorders
5. Explain the management of bleeding and thrombotic disorders
6. Demonstrate history and physical taking skills in the evaluation of patients with bleeding disorders and thrombotic conditions
7. Demonstrate history and physical taking skills in the evaluation of patients with lymphadenopathy or paraproteinemia
8. Discuss a rational approach to the diagnosis and treatment of cytopenias, such as anemia, thrombocytopenia, pancytopenia.
9. Discuss appropriate use of hematopoietic growth factors such as erythropoietin, granulocyte colony stimulating factor, etc.

10. Explain the appropriate use of blood products and the work up of various transfusion reactions.

**Schedule of Activities**

This elective is two to four weeks in length. The student will begin work at 8 a.m. daily under the supervision of the attending on the inpatient hematology service. The student will participate in daily rounds, didactic sessions as assigned and will attend two outpatient hematology clinics per week. Students may also be assigned to see hematology consults.

**Didactic Activities**

The student will attend the lymphoma pathology conference on Tuesdays at 12:30 p.m. in 2.0727, the leukemia and myeloma conference on Wednesdays at noon in 2.3601. The student will also attend the Fellowship Teaching Conference held on select Thursdays at 7:30 a.m. in 2.0727 and the Fellows Core Competency Conference on Fridays at 8 a.m. in 3.0809.

**Required Reading**

Selected articles as assigned by Dr. Huston at the outset of the elective rotation.

**Student Evaluations**

To receive a passing grade, students must attend all clinical and didactic activities. They will also make a short presentation to the hematology attending and team. Students must also receive a satisfactory evaluation from the course director and return their course evaluations prior to grades being posted.
Course Information

Course Director
Ronald Lewis Sham M.D.
Contact Person
Nancy Rosenberg at 922-5387 email nancy.rosenberg@rochesterregional.org
Class Year Name
Clinical Hematology
Class Code
MED654
Elective Tags
Inpatient Service
Block Length
2
Students
1
Prerequisites
MED300 Medicine Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Lipson Cancer and Blood Center, Lobby Level Room A1500
What time should students report?
8:15 am
Who should they report to?
Ronald Sham, M.D.

Goal

To understand the pathophysiology underlying common hematologic disorders and to develop a problem-oriented approach to the diagnosis and management of blood disorders.

Learning Objectives

By the end of the rotation the student should be able to:
Formulate an accurate differential diagnosis for most common hematologic problems
Interpret peripheral blood smears
Have an understanding of disorders of hemostasis and thrombosis
Utilize hematology laboratory studies in a rational manner

A two week block will be enough to acquire basic skills. Students seeking in-depth study should arrange a four to six week block.

Schedule of Activities

Students will be expected to participate in daily in-patient rounds and will see outpatients with a preceptor five days a week. Bone marrow conferences with the hematopathologist are held twice a week and multi-disciplinary comprehensive Hemophilia Clinics once a month. An effort will be made to expose the student to as many different types of common hematologic problems as possible.

Didactic Activities
Teaching occurs for the most part in the context of inpatient and outpatient cases seen during the clerkship. Students will be expected to present cases to the preceptor and to other students/residents on the service. The preceptor will help direct the student to the relevant literature. Students are expected to attend a weekly conferences including bone marrow conference, Hemophilia conferand and X-Ray conference.

**Required Reading**

Each student will receive guidance regarding reading related to hematologic problems.

**Student Evaluations**

To achieve a grade of satisfactory, students must participate in the majority of the unit’s activities outlined above and demonstrate to the preceptor that they have achieved the learning objectives.
Course Information

Course Director  
Alissa J. Huston M.D.  
Contact Person  
Dina Henchen 275-4797 dina_henchen@urmc.rochester.edu  
Class Year Name  
Medical Oncology  
Class Code  
MED655  
Elective Tags  
Consultation Service, Inpatient Service, Multidisciplinary, Outpatient Service, Patient Care  
Block Length  
2 to 4  
Students  
1  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year, International Visiting  
Where should students report?  
Variable. This information will be provided to the students upon registration.  
What time should students report?  
8 a.m.  
Who should they report to?  
Alissa Huston, M.D.

Goal

Students will become familiar with common cancers. Students will be encouraged to consider a career in medical oncology and to develop an interest in cancer research.

Learning Objectives

At the end of the elective the student will be able to:

1. List the signs and symptoms of common cancers and describe their diagnostic evaluation and natural history.
2. Discuss the principles of cancer therapy including chemo-, hormonal-, and biologic-therapy.
3. Explain the management of common complications of therapy including myelosuppression, infection, hemorrhage, nausea, vomiting, and renal and cardiac failure.
4. Explain the treatment of oncologic emergencies; such as febrile neutropenia, spinal cord compression, and metabolic abnormalities such as hypercalcemia.
5. Discuss the management of cancer-related pain and the use of narcotic analgesics and adjunctive medications.
6. Discuss the long term complications of cancer and its therapy.
7. Discuss the role of clinical trials in a clinical cancer setting.
8. Demonstrate history and physical taking skills in the evaluation of patients with cancer.
Schedule of Activities

This elective is two to four weeks in length. The student will begin work at 8 a.m. and will attend a variety of outpatient medical oncology clinics. Students may also spend time seeing select inpatient consults with the inpatient attending physician.

Didactic Activities

Students will attend the breast oncology pathology conference at 7:30 a.m. on Mondays in 2.0727, the breast oncology didactic conference at noon on Wednesdays in 2.0727 or the genitourinary oncology conference on the first and third weeks each month at noon in G.5307, the fellowship teaching conference on some Thursdays at 7:30 a.m. on 2.0727, the thoracic oncology conference at 4 p.m. Thursdays in 2.0727, the gastrointestinal oncology conference at 7:30 a.m. on Fridays in 2.0727 or the fellowship core competency conference at 8 a.m. Fridays in 3.0809.

Required Reading

Selected articles as assigned by Dr. Huston at the outset of the elective rotation.

Student Evaluations

To receive a passing grade, students must attend all clinical and didactic activities. They will also make a short presentation to the oncology attending physician and team. Students must also receive a satisfactory evaluation from the course director and return their course evaluations prior to grades being posted.
Course Information

Course Director
Alissa J. Huston M.D.
Contact Person
Dina Henchen 275-4797 dina_henchen@urmc.rochester.edu
Class Year Name
Individualized Hematology/Medical Oncology
Class Code
MED656
Elective Tags
Consultation Service,Inpatient Service,Multidisciplinary,Outpatient Service,Patient Care
Block Length
2 to 4 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
4th Year
Where should students report?
Variable. This information will be provided to the students upon registration.
What time should students report?
8 a.m.
Who should they report to?
Alissa Huston, M.D.

Goal

The pre-requisite for this course is either MED 653 or MED 655.

This elective is intended for fourth year medical students who have already taken MED 653 or MED 655. It offers the chance for the development of an in-depth learning experience for students who wish to focus their learning on a particular hematologic or oncologic disease family.

Learning Objectives

To be discussed with the course director upon registration.

Schedule of Activities

To be discussed with the course director upon registration.

Didactic Activities

To be discussed with the course director upon registration.

Required Reading

To be discussed with the course director upon registration.

Student Evaluations

To be discussed with the course director upon registration.
Course Information

Course Director
Ummara H. Shah M.D.
Contact Person
John Peters 275-9139, john_peters@urmc.rochester.edu
Class Year Name
Clinical Immunology
Class Code
MED658
Elective Tags
Inpatient Service, Outpatient Service, Patient Care
Block Length
2 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
SMH RM 5-6220N for orientation followed by RM 5-6220I for further instructions. Must be in contact with John Peters before reporting.
What time should students report?
10:30am on morning of elective start
Who should they report to?
Dr. Ummara Shah for orientation followed by John Peters for further instructions

Goal

To provide a solid foundation in Allergy/Immunology and Rheumatology which will allow the student to approach the patient with allergic or musculoskeletal complaints in an organized and efficient manner.

Learning Objectives

By the end of the rotation the student should will:
-Develop an understanding of the diagnostic criteria for rheumatoid arthritis, osteoarthritis, crystal induced arthritis, systemic lupus erythematosus, seronegative spondyloarthopathies, fibromyalgia, septic arthritis, allergic rhinitis and asthma.
-Develop an understanding of synovial fluid analysis and its use in diagnosis and management of acute and chronic arthritis.
-Develop skills in interpreting bone radiographs and understand the radiographic features of rheumatoid arthritis, osteoarthritis, gout, psuedogout, and seronegative spondyloarthopathies.
-Develop an understanding of the use of immunologic laboratory studies in the diagnosis and management of patients with autoimmune diseases.
-Develop an understanding of the indications for and potential side effects of commonly used medications such as NSAIDs, hydroxychloroquine, sulfasalazine, methotrexate, azathioprine, cyclophosphamide, etanercept, infliximab, leflunomide, corticosteroids, colchicine, probenecid, and allopurinol.
-Develop an understanding of the role of physical and occupational therapy in the treatment of musculoskeletal problems.
-Develop an understanding of the indications, contra-indications, and techniques of arthrocentesis.
-Develop an understanding of allergic diseases, asthma and the differential diagnosis of wheezing, nasal congestion and rhinorrhea.
-Develop experience in taking a complete environmental history and in advising patients regarding techniques to reduce exposure to house dust mite, mold, and animal antigens.
Schedule of Activities

Students will be assigned to an ambulatory office practice for up to 4 half days per week. Students will also be encouraged to evaluate selected inpatients who are being followed by the inpatient service. Students will attend the Division conferences.

Didactic Activities

Students are required to attend all AIR conferences which include Thursday morning Clinical Conferences, Case Conundrum, Radiology Conference & Journal Club.

Required Reading

Students are required to complete a Blackboard self-study course, AIR.MS .2011-2012.

Student Evaluations

The standard Medical School Evaluation will be used
Course Information

Course Director
Edward Epes Walsh M.D.
Contact Person
Edna Fernandez, 922-4003, edna.fernandez@rochesterregional.org
Class Year Name
Elective in Infectious Diseases
Class Code
MED660
Elective Tags
Inpatient Service, Patient Care
Block Length
2-4 weeks
Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Rochester General Hospital, Room R209
What time should students report?
8:30 am
Who should they report to?
Edna Fernandez

Goal

Students should develop greater familiarity with infectious agents and their clinical presentation, host-parasite relationships, use of the diagnostic microbiology laboratory and antibiotic chemotherapy.

Learning Objectives

By the end of the rotation the student should be able to:
?Recognize common bedside and laboratory findings that point to a possible infectious disease etiology of disease in the hospitalized patient.
?Order and properly interpret diagnostic laboratory tests used in the evaluation of patients for whom an Infectious Disease Service consultation is requested. These include a variety of conventional viral, bacterial, and fungal culture and serologic methods.
?Make rational drug choices among families of antimicrobial and antiviral agents for the treatment of infectious diseases and to recognize potential allergic and toxic side effects and their management.
?Discuss the mechanisms of host defense against infectious agents in normal and immunocompromised patients.
?Discuss common problems in hospital epidemiology and infection control.
Course Information

Course Director
Peter R. Mariuz M.D.
Contact Person
Shawn Sciascia 275-7665
Class Year Name
HIV Outpatient Care
Class Code
MED662
Elective Tags
Consultation Service, Outpatient Service, Patient Care
Block Length
2 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Infectious Diseases Clinic AC-3; silver elevator to 3rd floor. ID is the last Clinic.
What time should students report?
8:30 AM
Who should they report to?
Shawn Sciascia

Goal

To develop an understanding of HIV ambulatory care, the diagnostic challenges of HIV related complications, the psycho-social impact of HIV disease, and relevant issues around HIV prevention.

Learning Objectives

By the end of the rotation the student should be able to:

Describe the current recommendations for prophylaxis of opportunistic infections.

List the different options for treatment of pulmonary pneumocystosis.

List currently approved antiretrovirals, and discuss their uses and side effects.

Discuss use of antiretrovirals for prevention of vertical transmission of HIV.

Describe the initial work-up of HIV-infected individuals, including guidelines for interpretation of tuberculin skin tests.

Discuss strategies to improve the patient's adherence to medications.

Identify patients for whom psychiatric consultation is indicated.
MED665 Infectious Diseases

Course Information

Course Director
Paul S. Graman M.D.
Contact Person
Wendy Lepsch 275-5873, Wendy_Lepsch@URMC.Rochester.edu AnnMarie Crist 275-6558 AnnMarie_Crist@URMC.Rochester.edu
Class Year Name
Infectious Diseases
Class Code
MED665
Elective Tags
Consultation Service, Inpatient Service, Patient Care
Block Length
2-4 weeks
Students
2
Prerequisites
MED300 Medicine Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
4th Year, International Visiting, Visiting
Where should students report?
Infectious Disease Division Office Room 3-6209
What time should students report?
9:00 AM
Who should they report to?
AnnMarie Crist

Goal

To understand the principles of diagnosis and treatment of infectious diseases, including familiarity with culture and susceptibility tests, and use of antimicrobial agents.

Learning Objectives

By the end of the rotation the student should be able to:

Discuss pathogenesis of common infections, including cellulitis, pneumonia, bacteremia, UTI, and tuberculosis.

Distinguish between infection, colonization, and contamination.

Interpret results of cultures and gram stains from various sites, including sputum, urine, blood, CSF, and wounds.

Interpret results of antibiotic susceptibility testing, and apply these results in the selection of appropriate antibiotic therapy. Define minimum inhibitory concentration (MIC) and minimum bactericidal concentration (MBC).

Discuss pharmacology, toxicity and spectrum of commonly used antibiotics.

Evaluate a patient with fever of uncertain etiology.
Schedule of Activities

Students work closely with Fellows, Medical Residents, and Attendings on the Infectious Disease in-patient service at SMH. Students will be assigned new patient consultations for work-up in conjunction with a Fellow or Resident; students will write up, present and discuss these cases on ID Attending Rounds.

Didactic Activities

- Students are expected to read about and discuss patient cases with their preceptors.
- Students should attend ID Clinical Conference (Thursdays 11:30-1:00) and ID City-Wide Conference (last Thursday of month 8:00-9:30).
- Students are welcome to attend other conferences including HIV Conference (Mondays 12:00-1:00), ID Journal Club (2nd and 4th Wednesdays 12:00-1:00), and ID Seminar Series (Fridays 8:00-9:00).
- Students may be assigned to present one of their patient cases at ID Clinical Conference.

Required Reading

Principles and Practice of Infectious Diseases, Bennett, Dolin and Blaser. 8th ed., 2015 (selected chapters).

Student Evaluations

In order to receive a grade of Pass, students must: 1) demonstrate an appropriate knowledge of the learning objectives, 2) actively participate in rounds, patient care, and conferences, and 3) complete patient work-ups at a level commensurate with their experience.
Course Information

Course Director
Rebeca Denise Monk M.D.
Contact Person
Marilyn Miran 275-1554 marilyn_miran@urmc.rochester.edu
Class Year Name
Clinical Nephrology
Class Code
MED670
Elective Tags
Inpatient Service, Outpatient Service, Patient Care
Block Length
2-4
Students
2
Prerequisites
(ALL) MED300 Medicine Clerkship, TYC300 Third Year Comprehensive Assessment
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
4th Year, Visiting
Where should students report?
On first day Students should report to room 3-6324 and ask the secretary to page the fellow on acute service
for direction.
What time should students report?
8:30 am.
Who should they report to?
Nephrology Fellow on Acute service

Goal

An elective experience designed for 4th year Medical students to gain experience in clinical nephrology, the
student is expected to achieve competence in the diagnosis and management of common problems in
nephrology including acute and chronic kidney disease as well as acid-base and electrolyte disturbances

Learning Objectives

By the end of the rotation the student should be able to:
- Present data on new patients to the team and generate a consult note on new patients.
- Provide excellent daily follow-up on several patients on the team.
- Generate an appropriate differential diagnosis for patients with acute kidney disease.
- Use appropriate diagnostic tools to differentiate between pre-renal and intrinsic renal disease
- Do a urinalysis and become familiar with common findings seen.
- Diagnose and manage common electrolyte and acid-base disorders
- Understand the rationale for prescribing standard medications used in patients with chronic kidney disease
- Become familiar with the work-up of patients with proteinuria and hematuria.
- Become familiar with common disorders of calcium and phosphorus balance, and nephrolithiasis

Schedule of Activities

Students are assigned to SMH and work on the inpatient units with the acute consult team which consists of an
attending, a Nephrology fellow and occasionally internal medicine residents. Essential outpatient experience is
obtained in the Tuesday afternoon and Friday morning general nephrology clinics.

**Didactic Activities**

There is a monthly clinical conference presented by a fellow, renal pathology conference twice/month, weekly journal club, a weekly sign-out conference in which all of the complex and interesting inpatients on the service are discussed. Other seminars of interest are the weekly journal club, biweekly physiology conference and biopsy conference which students are welcome to attend.

**Required Reading**

Case relevant material

**Student Evaluations**

A narrative evaluation is completed with comments regarding the student's knowledge, clinical skills, problem-solving and clinical reasoning abilities, communication skills and personal and professional qualities, including dependability, motivation and interpersonal relationships during the rotation.
**Course Information**

Course Director  
Marvin Grieff M.D.  
Contact Person  
Patricia Read, 922-0402, patricia.read@rochesterregional.org  
Class Year Name  
Elective in Nephrology  
Class Code  
MED671  
Elective Tags  
Consultation Service, Inpatient Service  
Block Length  
2 - 4 weeks  
Students  
2  
Prerequisites  
MED300 Medicine Clerkship  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
Yes  
Available to the following medical students:  
3rd Year, 4th Year, International Visiting  
Where should students report?  
Rochester General, Room B5005. Nephrology has moved off-site to 370 E. Ridge Rd, Ste 20, NE corner of E. Ridge Rd & Seneca Ave. 922-0402 is my direct extension for further instructions and/or questions  
What time should students report?  
9:00 am  
Who should they report to?  
Patricia Read/ Lisa Phillipson  

**Goal**

To understand the basic concepts of renal diseases, acid-base and fluid balance.

**Learning Objectives**

By the end of the rotation the student should be able to:  
?Identify patients for whose management a nephrology consultation is indicated and learn how to perform the consultation.  
?Explain the difference between acute and chronic renal disease, and the general correlation between different patterns of urinalysis sediment findings and certain disease states.  
?Define the different types of proteinuria, and define the mechanism of nephrotic syndrome.  
?Learn the major causes of acute renal failure and to distinguish between prerenal disease, acute tubular necrosis and obstructive uropathy.  
?Learn the use of urinary sodium concentration and the fractional excretion of sodium to distinguish between prerenal states and acute tubular necrosis as a cause of acute renal failure.  
?Know the major glomerular syndromes (nephritic and nephrotic) and their clinical presentation. Discuss the mechanisms responsible for immune mediated glomerular injury, vasculitis, and how they affect the structure and function of the kidney. Discuss the progression of chronic renal failure and the adaptive responses to loss of functioning nephrons.  
?Discuss the mechanisms by which uremic symptoms are produced, the role of parathyroid hormone and Vitamin D in chronic renal insufficiency and erythropoietin in Renal anemia.  
?Describe the indications for dialysis both in acute and chronic renal failure.  
?Discuss the mechanisms of sodium retention in edema states and how to use diuretics in the treatment of sodium retention.  
?Discuss the factors which determine the plasma sodium concentration, and the mechanism and treatment of hypo and hypernatremia.
Discuss the factors involved in the regulation of potassium balance, the major causes of hyper and hypokalemia and the physiological principles of therapy for hyperkalemia.

Explain the basic principles of acid base physiology, the characteristics of different acid base disorders and the rational treatment of metabolic acidosis and metabolic alkalosis.

**Schedule of Activities**

The students assigned to the Rochester General Hospital Nephrology Unit will work with the consulting nephrologists from 8:30 a.m. to 5:30 p.m. on weekdays. The students will be assigned new patient consultations, usually one per day and will follow these patients during the elective. The students will also see new patients in the outpatient nephrology clinic, and on follow-up visits. The student will perform the initial evaluation under the direct supervision of the consulting nephrologists. Urinalysis will be performed by the student under the guidance of a nephrologist on each new consultation.

**Didactic Activities**

Students will be assigned a preceptor (different from the consulting nephrologists). This preceptor will discuss the learning objectives with the students. The student will participate in all the clinical conferences of the nephrology unit. Each student will be assigned a specific nephrological problem, based on material seen on the wards. This will be researched and presented to the nephrology group at the clinical conference. In addition, the students are expected to attend resident conferences and the RGH medical grand rounds each week.

**Required Reading**


**Student Evaluations**

To receive a grade of pass, students must perform adequate, work-ups to the preceptor, participate in the clinical conference and must receive a satisfactory clinical evaluation from the consulting nephrologists.
MED673 Elective in Nephrology

Course Information

Course Director
Craig Bennett Kaplan M.D., M.A.

Contact Person
Virginia Petrillo 341-6895 Christine_Carrier-Gray@urmc.rochester.edu

Class Year Name
Elective in Nephrology

Class Code
MED673

Elective Tags
Research-Clinical, Teaching

Block Length
4 - 6 weeks

Students
1

Prerequisites
MED300 Medicine Clerkship

An elective experience is sometimes "split" by these weeks. Is it okay to split?

No

Available to the following medical students:
3rd Year, 4th Year

Where should students report?
Highland Hospital Nephrology Office Physician’s Office Building Suite 030

What time should students report?
8:30am

Who should they report to?
Christine Carrier-Gray

Goal

To understand the principles of evaluation and management of acid base, fluid electrolyte, and nephrologic problems.

Must get course director’s approval prior to scheduling

Learning Objectives

By the end of the rotation the student should be able to:
1. Perform a urinalysis, identify chemical and microscopic components accurately, and apply this finding to the clinical setting in formulating a differential diagnosis.
2. Interpret arterial blood gases, plasma and urine anion gap, and evaluate and formulate a specific treatment plan for simple and mixed acid base disturbances.
3. Evaluate and formulate a specific treatment plan for fluid and electrolyte disturbances utilizing clinical and blood and chemistry results (osmolality, fractional excretion).
4. Evaluate timed urinary collections for creatinine and protein.
5. Know the appropriate workup and differential diagnosis of clinical problems including hematuria, proteinuria, and renal failure.
6. Discuss the management of acute renal failure and chronic renal failure.
7. Identify the features of glomerulonephritis and list the main histologic types and primary and secondary etiologies for these.
8. Describe the effects of certain drugs (antibiotics, non-steroidal anti-inflammatory drugs) on the kidney.
9. Identify patients/situations that require consultation with a nephrologist.
10. Describe the principles of dialysis and the modalities available to treat patients with end-stage renal disease.
11. Evaluate patients presenting with nephrolithiasis and describe reasons to consider workup to rule out secondary hypertension.
12. Discuss primary and secondary hypertension and describe reasons for and plans for workup of secondary
Schedule of Activities

All activities are at Highland Hospital where students will work under the guidance and supervision of the four faculty nephrologists. They will participate in inpatient hospital rounds and evaluate inpatient and outpatient consults.

Didactic Activities

Students will participate in nephrology subspecialty conferences and journal clubs. They will be expected to independently evaluate clinical problems and formulate and discuss differential diagnosis, workup and treatment plan with the attending nephrologist.

Required Reading

*All resources can be borrowed from the Nephrology Department library at HH.

Student Evaluations

To receive a grade of pass, the student must participate in daily rounds taking an active role in patient evaluation and care. They must turn in a documented log sheet that learning objectives were met and they must complete and pass the written nephrology exam given at the end of the course. The latter will be reviewed with the student to identify weaknesses and clarify understandings.
**Course Information**

Course Director  
Ronald Lewis Sham M.D.
Contact Person  
Sherri Hill at 922-5387 email: sherri.hill@rochesterregional.org
Class Year Name  
Clinical Oncology
Class Code  
MED684
Elective Tags  
Inpatient Service
Block Length  
2 weeks
Students  
1
Prerequisites  
MED300 Medicine Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
Yes
Available to the following medical students:  
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?  
Lipson Cancer and Blood Center, Lobby Level
What time should students report?  
8:15 a.m.
Who should they report to?  
Ronald Sham, M.D.

**Goal**

The student should be able to understand the database necessary to be gathered and the decision making criteria to consider in evaluation and treatment of patients with cancer.

**Learning Objectives**

By the end of the rotation the student should be able to:
Perform a history with specific attention to areas concerning diagnosis (family history, environmental exposures, history of present illness) and physical examination directed to skin, lymph nodes, breast, liver, spleen, and tumor measurements.
Become aware of the major oncologic emergencies such as spinal cord compression, tumor lysis syndrome, hypercalcemia and understand the principles of managing these conditions.
Interact with other members of the multimodality oncologic team: radiation and surgical oncology, nursing, social work.
Assess performance status and estimate the short and long-term toxicities of chemotherapy regimens.

**Schedule of Activities**

Student will participate in outpatient office evaluation of patients with a wide range of malignant diseases. The student will evaluate out-patients and inpatients under the direct supervision of a faculty attending.

**Didactic Activities**

There are three scheduled conferences per week at which the student will learn about radiographic and
pathologic evaluation of patients. There are also case-based didactic sessions after clinics.

**Required Reading**

Articles and Texts recommended during elective.

**Student Evaluations**

The student will be evaluated by direct observation of the student's skills at taking a history, physical and problem solving.
Course Information

Course Director
Timothy James Woodlock M.D.
Contact Person
timothy.woodlock@rochesterregional.org 368-3591
Class Year Name
Clinical Oncology/Hematology
Class Code
MED685
Elective Tags
Outpatient Service
Block Length
1 - 4 weeks
Students
2
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Unity Health System, Bishop Kearney Building 1st floor St. Mary's Campus, 89 Genesee St. Rochester, NY 14611 (park in adjacent ramp garage)
What time should students report?
9:00 am
Who should they report to?
Dr. Timothy Woodlock, Course Director

Goal

Students will obtain a general knowledge of the medical care of cancer patients and patients with bleeding and clotting illnesses. We correlate basic science and psycho-social concepts with clinical problems and solutions. Much time is available for one-on-one contact with patients to grasp deeply the nature of their illness and treatment. Students also present a 20-minute seminar to our unit on a heme/onc topic of their choice with faculty supervision and aid.

Learning Objectives

1. General knowledge of heme-onc diseases and treatments.
2. Supervised in-depth contact with a wide variety of patients.
3. Focused review of topic chosen by student.
4. Availability to participate in procedures if desired by student.

Schedule of Activities

2. Unity Dept. of Medicine grand rounds - Tues 8 a.m.
3. Tumor Conference - Wed 7:30 a.m.
4. Student - presented seminar.
5. Unity resident conferences as time allows.

**Didactic Activities**

(see schedule of activities)

The attending physicians in addition review in detail each case seen by the student, covering history and physical skills as well as patient management issues.

**Required Reading**

Reading materials appropriate to patients seen will be supplied by supervising physicians.

**Student Evaluations**

Based on interest and participation in elective.
**Course Information**

Course Director  
Kenneth Y. Usuki M.D.

Contact Person  
Michelle Crary / 3-1984 / michelle_crary@urmc.rochester.edu

Class Year Name  
Multidisciplinary Oncology in Radiation Oncology

Class Code  
MED686

Elective Tags  
Multidisciplinary, Outpatient Service

Block Length  
2 - 4 weeks

Students  
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?

No

Available to the following medical students:  
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?  
Department of Radiation Oncology waiting Room G-0850A, ask receptionist to call Michelle at 3-1984

What time should students report?  
7:45 a.m.

Who should they report to?  
Michelle Crary

**Goal**

To provide students with an understanding of cancer management in a multidisciplinary setting with an emphasis on clinical radiation oncology.

**Learning Objectives**

By the end of the rotation the student should be able to:

* Discuss the natural history of malignant disease
* Describe standard work-up and diagnostic tests used in the evaluation of new patients and in follow-up clinic.
* Discuss staging of the disease and its relationship to development of a treatment plan.
* Explain indications for delivering radiation therapy.
* Discuss the process leading up to and including formulation of a treatment plan.
* Describe integration of other standard therapeutic modalities (surgery and chemotherapy) in cancer management.
* Identify various side effects associated with radiation therapy treatments and explain management techniques.

**Schedule of Activities**

Students are assigned to a radiation oncologist on a rotating basis at SMH from 8:00am - 5:00pm. Students will follow patients from consult through treatment with emphasis on all aspects of patient care, particularly on diagnostic evaluation of new patients leading to accurate staging of disease and formulation of a treatment plan, often multidisciplinary in character.

**Didactic Activities**

- New Patient Conference - 1 hour per week
- Treatment Planning Rounds - 1 hour per week
- Rad Bio course - 1 hour per week
- Physics course - 1 hour per week
- Other educational opportunities dependant on the month/week

**Required Reading**

Clinical Oncology, 8 ed. By Philip Rubin, M.D. - major reference text.

**Student Evaluations**

To receive a grade of Pass, students must turn in all assigned case studies, attend new patient conferences and treatment planning rounds and receive a satisfactory clinical evaluation from their preceptors.
Course Information

Course Director
David R. Trawick M.D., Ph.D.
Contact Person
Ann Bauman 275-4861 ann_bauman@urmc.rochester.edu
Class Year Name
Inpatient Pulmonary Medicine
Class Code
MED692
Elective Tags
Inpatient Service
Block Length
2 - 4 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Please call or e-mail Ann Bauman a few days prior to the start of the rotation.
What time should students report?
TBD
Who should they report to?
TBD

Goal

At the end of this rotation, the student should be able to articulate the initial diagnostic approach to and management of patients with common respiratory problems such as asthma, COPD, interstitial lung disease and lung cancer. Other conditions likely to be encountered include obstructive sleep apnea, pulmonary hypertension, and unexplained dyspnea or hypoxemia. The student should also be familiar with basic pathophysiological mechanisms of hypoxemia including the causes of a widened A-a gradient, and also principles of alveolar ventilation. Basic interpretation of the normal and abnormal chest X-ray will also be expected.

Learning Objectives

The student will accompany the inpatient Pulmonary Consult Team at Strong Memorial Hospital. The Consult Team consists of an Attending and Fellow that see 3-5 new consults per day with a variety of pulmonary diagnoses. An Internal Medicine Resident is also usually a part of the team during elective time. Consults vary in their acuity from acute respiratory failure to lung cancer, and more chronic problems including cough and unexplained dyspnea. The student will initially accompany the team on rounds and observe the process of consultation from initial evaluation to write-up of recommendations. By the end of the rotation the student will be expected to see new consults independently and initiate his/her own diagnostic plan. The student will be expected to provide a 5-10 minute overview of evidenced based management of one of his or her cases twice per week on rounds (total of four presentations). The student will be expected to attend regularly scheduled conferences (e.g. City Wide Chest Conference on Wednesday morning, and Pulmonary Clinic Conference on Fridays at Noon), and will also have the opportunity to present an interesting case at these conferences. The student will also have the chance to observe fiberoptic bronchoscopies (e.g. bronchoalveolar lavage or transbronchial biopsies) since the Pulmonary Team also performs this procedure on a regular basis. There may be limited possibilities to participate in outpatient Pulmonary clinic as well.
Schedule of Activities

Daily rounds five days per week on the pulmonary inpatient consults service. Bronchoscopies scheduled throughout the day beginning at 8 a.m. Depending on volume of service, rounds can conclude after 6 p.m.

Didactic Activities

Formal didactic sessions include City Wide Chest Conference on Wednesday morning, and Pulmonary Clinic Conference Fridays at noon. Informal teaching sessions as part of rounds.

Student Evaluations

Student’s performance will be graded by: (i) their participation in rounds and ability to complete a coherent consult write-up on a timely basis; (ii) direct observation of their clinical skills including history taking and physical exam; and (iii) their presentations on rounds or at conferences.
Course Information

Course Director
Gary W. Wahl M.D.
Contact Person
Susan Sutton, 922-4409, susan.sutton@rochestergeneral.org

Class Year Name
Pulmonary Medicine
Class Code
MED693
Elective Tags
Patient Care
Block Length
2 - 4 weeks
Students
1
Prerequisites
MED300 Medicine Clerkship

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
Rochester General Hospital, Pulmonary Office 4th Floor

What time should students report?
9:00 am

Who should they report to?
Gary Wahl, M.D.

Goal

The student will learn a systematic approach to the clinical evaluation of lung disease. If the student wishes, he or she may tailor their experience to emphasize either inpatients (including MICU patients), or outpatients.

Learning Objectives

By the end of the rotation the student should be able to:

? Evaluate common symptoms associated with lung disease such as dyspnea, cough and hemoptysis.
? Diagnose and treat common lung disorders, including COPD, asthma, pneumonia, and lung cancer.
? Interpret simple, commonly used pulmonary function tests.
? Better understand the role of bronchoscopy, chest x-ray, and lung biopsy in the evaluation of lung disease.
? Present a concise, focused presentation of a patient with respiratory symptoms or disease.

Schedule of Activities

Daily rounds, conferences, and patient evaluations begin at 8:30 am and last until 5:00 pm. Students will interview and examine 3-5 new patients a week and make a presentation of the patient to one of the staff attendings. On most days, the students can expect to round and work closely with one of the staff attendings for 3-4 hours.

Didactic Activities

1. Daily interpretation of pulmonary function tests

96
2. Weekly x-ray conference
3. Weekly pathology conference
4. Monday, Wednesday, Friday ICU patient conference
5. Weekly city-wide case conference
6. Weekly review conference of pertinent journal articles

**Required Reading**

Respiratory Disease section of the General Medical text. Pertinent review articles related to patients evaluated.

**Student Evaluations**

Students will be evaluated based on their close interaction with faculty. Particular attention will be paid to their ability to organize, analyze, and present clinical information. The importance of good case presentation skills will be emphasized.
**Course Information**

Course Director  
Michael E. Yurcheshen M.D.  
Contact Person  
Michael Yurcheshen, M.D.; 341-7575 joseph_modrak@urmc.rochester.edu  
Class Year Name  
Sleep Medicine Elective  
Class Code  
MED695  
Elective Tags  
Multidisciplinary, Outpatient Service, Patient Care  
Block Length  
1 - 2 weeks (4 weeks by arrangement) Must get approval.  
Students  
1  
Prerequisites  
(ALL) MED300 Medicine Clerkship, PED300 Pediatrics Clerkship  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year  
Where should students report?  
Must get course director's approval prior to scheduling....Strong Sleep Disorders Center 2337 S. Clinton Ave  
What time should students report?  
8:30  
Who should they report to?  
Rhonda Westmiller, receptionist. Must Contact Dr. Yurcheshen before scheduling  

**Goal**

To develop an understanding of the various sleep disorders and their treatment.

**Learning Objectives**

By the end of the rotation, the student should be able to:  
- Take a comprehensive sleep history.  
- Identify patients who likely suffer from a sleep disorder.  
- Become cognizant of both the medical and societal cost of various sleep disorders.  
- Be able to manage and counsel a patient suffering from obstructive sleep apnea.  
- Be familiar with behavioral therapy in treating patients suffering from insomnia.  
- Be able to describe the normal stages of sleep as well as the physiologic changes that occur during sleep.  
- Describe the underlying physiology of obstructive sleep apnea.

**Schedule of Activities**

Students will rotate at the Strong Sleep Disorders Center of Rochester during their one or two-week elective. During this time, they will perform the initial evaluation on patients referred to the center. Many of these patients will suffer from obstructive sleep apnea, however, there is also exposure to patients with other sleep abnormalities such as narcolepsy, restless legs syndrome/periodic limb movements during sleep, and REM behavior disorder. Medical students will also rotate in the insomnia clinic, where they will be exposed to behavioral therapy in the treatment of chronic insomnia.

**Didactic Activities**
Students are expected to read about and discuss the learning objectives with their preceptor during the clinical day. The consults that the medical students are involved in will be discussed on a one-to-one basis and teaching points will be made about each case.

**Required Reading**

- Current Concepts in Sleep Medicine by Peter Huari
- Principles and practices of Medicine by Kryger, Roth and Dement (selected chapters)
- Various articles from recent literature about sleep disorders
- These booklets will be provided to you at the beginning of your rotation.

**Student Evaluations**

To receive a grade of pass, students need to actively participate in the assessment and care of patients at the Sleep Disorders Center. They must also demonstrate an understanding of the learning objectives.
Course Information

Course Director
E. Ray Dorsey M.D., M.B.A.
Contact Person
Dr. Ray Dorsey @ ray.dorsey@ctcc.rochester.edu
Class Year Name
Medical Entrepreneurship
Class Code
MED699
Elective Tags
Teaching
Block Length
1-4 weeks
Students
18

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting
Where should students report?
Students should contact Dr. Dorsey for the location of the initial meeting.
What time should students report?
TBD
Who should they report to?
Dr. Dorsey

Goal

To understand how new ideas in medicine and health care can be transformed into business or practice; educate medical technology innovators how to increase their likelihood of success in identifying important clinical needs, inventing new medical practices, devices and instruments, and transforming these advances into businesses that improve health

Learning Objectives

1. To develop ideas for transforming medicine or health care
2. To understand how those ideas can be translated into a business or practice
3. To create a business plan around an innovative idea with a team of business school and medical students
4. To present that idea and plan to third parties (e.g., venture capitalists, health care leaders) for consideration

Schedule of Activities

The class is designed around innovation teams which should have differing backgrounds to foster the innovation process; therefore, the course will be comprised of students from the medical school and Simon
business school. It will be taught by faculty from both schools as well as outside speakers. The first two weeks will be didactics presenting decision frameworks and case studies aimed at developing innovative and disruptive technologies, discussing how those innovations are brought to the market, and the development of a business plan supporting the implementation of these ideas. As part of the course, students from both schools will form mixed teams to develop their own ideas for transforming health care or medicine in the form of a business plan. Those plans will then be presented to an outside panel of ‘Course Fellows’ including venture capitalists, health care leaders, and entrepreneurs for evaluation. Ideally, some of these ideas will be developed further, and eventually adopted.

**Didactic Activities**

The first two weeks will be didactics and case studies enabling innovative teams to help develop their own transformative ideas. During the latter two weeks, students will together in teams developing their ideas into a business plan.

**Required Reading**

Reading materials for the course will be presented on the first day and will be drawn from diverse sources, including case studies and sample business plans.

**Student Evaluations**

To receive a passing grade for this elective, students, working as team with students from multiple disciplines, must develop an idea for improving medicine or health care by developing a business plan suitable for external review.
**Course Information**

Course Director  
Marjorie Hodges Shaw J.D., Ph.D.  
Contact Person  
Chris Donnelly, 585-275-5800 christine_donnelly@urmc.rochester.edu  
Class Year Name  
Clinical Ethics  
Class Code  
MHU602  
Elective Tags  
Medical Humanities  
Block Length  
2 weeks  
Students  
1  

An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year  
Where should students report?  
Division of Medical Humanities and Bioethics, G-8011  
What time should students report?  
By arrangement with Chris Donnelly  
Who should they report to?  
Bernie Sussman

**Goal**

To learn the aspects of clinical ethics that are essential to good medical and surgical practice. This elective provides students the opportunity to participate in the clinical ethics consultation service, practice the skills necessary for discussing ethical dilemmas, reflect upon the evolution of clinical ethics and consider how personal and professional values influence the practice.

**Learning Objectives**

Capabilities the student is expected to acquire in this elective  
1. Identify situations/cases in which ethics consultation is appropriate; identify the procedure for requesting an ethics consultation; describe who can request an ethics consultation  
2. Demonstrate the process of reviewing the medical record in an ethics consultation; identify the relevant components of the medical record for an ethics consultation  
3. Identify the relevant parties to be interviewed for the ethics consultation  
4. Demonstrate the process of the ethics interview with patient, family, members of the care team, and others  
5. Identify ethical issues presented in clinical cases  
6. Recognize the major methodologies for analysis of ethical problems in clinical practice  
7. Utilize the major methodologies to analyze clinical cases  
8. Distinguish ethical, legal, and clinical issues  
9. Analyze the special problems that exist in cases involving difficult and/or non-compliant patients or families  
10. Demonstrate familiarity with the relevant bioethics literature, including major journals and books applying ethics to the field of interest of the student  
11. Prepare written summaries of ethical issues in clinical cases, including analyses, recommendations, and references to the literature  
12. Identify and demonstrate the appropriate mechanisms for follow up in ethics consultation

**Schedule of Activities**
The schedule of teaching and clinical activities for the Ethics Consultation Service varies. Chris Donnelly, Secretary of the Division of Medical Humanities & Bioethics will send each student on elective a welcome email message and a schedule for the rotation.

**Didactic Activities**

The student is expected to be familiar with the learning objectives and requirements before beginning this elective experience. The student will attend all classes and teaching rounds conducted by the course directors. The student will participate in all ethics consultations during the elective experience, including follow up. Students will research the issues around a clinical ethics case and present the case to the ethics team for discussion.

**Required Reading**

Students enrolling in this elective should have access to a copy of *Clinical Ethics: A Practical Approach to Ethical Decisions in Clinical Medicine* (8th Edition) by Jonsen, Siegler and Winslade. *Resolving Ethical Dilemmas: A Guide for Clinicians* (5th Edition) by Lo, available in the library or in the Medical Humanities office. Other bioethics literature, will be selected according to the current cases and student interest.

**Student Evaluations**

To receive a passing grade for this elective, the student will actively participate in the full activities of the ethics team. The student will contribute to discussions about cases and issues, and will participate in the preparation of written case summaries. Students will identify an issue in clinical ethics, research the literature and present the case to the clinical consult team for discussion.
Course Information

Course Director
Marjorie Hodges Shaw J.D., Ph.D.
Contact Person
Chris Donnelly, 585-275-5800 christine_donnelly@urmc.rochester.edu
Class Year Name
Clinical Ethics Research
Class Code
MHU603
Elective Tags
Medical Humanities
Block Length
2 weeks
Students
2
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Division of Medical Humanities and Bioethics, G-8011
What time should students report?
Schedule with Margie Shaw
Who should they report to?
Margie Shaw

Goal

This elective includes two options for students interested in pursuing independent research in ethics. The goal of both options is to allow the third or fourth year student to identify an ethics topic of interest and conduct substantive independent research of that topic under the guidance of the ethics faculty.

If the student elects option one, the student will produce a manuscript quality paper with input from faculty. (Examples of previous projects: “Children and the Law: Ethical Issues Surrounding Forensic Evaluations of Children and Using the Child Witness” and “The Ethics of a Faith-Based Free Community Health Clinic.”) This option gives the student the opportunity to identify an ethics topic of interest, critically survey the relevant ethics literature, develop an argument, hypothesis, or position, and develop this into a manuscript quality paper. This is a challenging assignment unless you have already completed the reading and thought about the topic.

If the student elects option two, the student will produce an annotated bibliography of at least 20 articles on a selected topic. This annotated bibliography will be published on the Division of Medical Humanities and Bioethics webpage. This option gives the student the opportunity to identify an ethics topic of interest, critically survey the relevant ethics literature, summarize the literature in a useful form to facilitate additional learning, and publish this resource on the Division’s webpage. In addition to summarizing and evaluating 20 articles on the selected topic, students are required to write a 2 page reflection on how this research will impact their future practice.

Learning Objectives

The learning objectives include:
1. Acquisition of knowledge about literature in bioethics and the skills to conduct research on ethical issues.
2. Acquisition of knowledge, including self knowledge, about an ethical issue that affects the practice of medicine and the medical profession.
3. The ability to provide a framework to the structure the issues in such a way to facilitate ethical decision-making.

**Schedule of Activities**

The student will identify a topic before beginning the elective (this can be done in email correspondence with the course director). During the elective the student will meet with the course director, by arrangement, to review the progress of the research and writing.

If the student elects to complete option one, the student must submit an outline and at least one draft prior to submission of the final paper.

**Didactic Activities**

The student will conduct library research and either write a paper or create an annotated bibliography, as described.

**Required Reading**

To be determined in the course of the research.

**Student Evaluations**

To receive a Pass grade, the student must attend all scheduled meetings and complete the project.
Course Information

Course Director
Erin Denney-Koelsch MD

Contact Person
Gina Caquias Gina_Caquias@urmc.rochester.edu 585-275-7987

Class Year Name
Palliative Care

Class Code
MHU604

Elective Tags
Inpatient Service

Block Length
2 weeks (exceptions will be considered on a case-by-case basis)

Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year

Where should students report?
Prior to elective start date, student will receive an e-mail with their schedule, reporting location, syllabus, etc.

What time should students report?
see above

Who should they report to?
see above

Goal

PLEASE NOTE: THIS ELECTIVE IS AVAILABLE FOR 4th YEAR MEDICAL STUDENTS.

IF YOU ARE A 3rd year medical student wishing to register, we encourage you to contact our office in advance to discuss prerequisites.

Elective Objective is to learn the elements of palliative care which are essential to good medical and surgical practice.

Learning Objectives

Capabilities the student is expected to acquire in this elective:
1. Identify situations / cases in which a palliative care consultation is appropriate; identify the procedure for requesting a palliative care consultation; describe who can request a palliative care consultation.
2. Demonstrate the process of a palliative care consultation, including review of basic medical status, assessment of uncomfortable symptoms, review status of potentially life-prolonging therapies, assess relevant psychosocial and spiritual issues, and identify key palliative care issues.
3. Identify the most common symptoms for which patients with advanced illness, and recognize basic modalities of treatment.
4. Demonstrate the ability to speak honestly and compassionately with dying patients and their families about their illness.

Schedule of Activities
Daily rounding with palliative care team, including evaluating new consultations and providing followup.
Weekly attendance at team meeting for case discussion (Wednesdays 7:30-9:00am in the 4-1200 Conference Room)
Weekly meeting with the Palliative care Pharmacist after the Wednesday team meeting to go over cases and questions about medication treatments

Meeting with senior attending every week to go over challenging cases, and to review answers to Palliative Care Workbook.
Weekly attendance at Wednesday noon conference (alternating with palliative care, clinical ethics, Schwartz, medical humanities and spirituality).
Attendance at Medical Grand Rounds (Tuesday mornings 8-9am, class of 62 Aud)

Didactic Activities

Attend the weekly Wednesday noon conference (alternating clinical ethics, palliative care, Schwartz Rounds, Medical Humanities, spirituality), Medical Grand Rounds, and Palliative Care Seminar with senior preceptor.

Required Reading

Students will receive a copy of the Palliative Care Primer early in the rotation, which they are expected to read, and to complete the associated workbook. There will be session(s) with a senior palliative care consultant to review the material in the workbook, and to discuss difficult palliative care challenges encountered. Students are expected to read about the palliative care issues encountered by their patients, and to prepare a brief report about a topic of interest by the end of the rotation.

Student Evaluations

Students will be evaluated by the palliative care attendings and nurse practitioners with whom they work with.
Course Information

Course Director
Stephanie Louise Brown-Clark M.D., Ph.D.
Contact Person
Chris Donnelly, 585-275-5800 christine_donnelly@umc.rochester.edu

Class Year Name
Independent Creative/Research Projects in Medical Humanities and Bioethics
Class Code
MHU615
Elective Tags
Medical Humanities

Block Length
Students must contact Medical Humanities to identify project and required criteria and then submit as a Special Elective for advisory dean review and approval.

Students
25

An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes

Available to the following medical students:
3rd Year, 4th Year

Where should students report?
Division of Medical Humanities & Bioethics, G-8011

What time should students report?
Schedule with Preceptor

Who should they report to?
Margie Shaw or Stephanie Brown Clark

Goal

Students must submit a proposal and receive approval for their independent study at least two weeks prior to the start date of the elective. Students should contact Stephanie Brown Clark for Medical Humanities or Margie Shaw for Bioethics. The proposal must include the following:

PERSONAL EDUCATION GOALS: What is the value of the project to you personally and/or as a physician-in-training?

LEARNING OBJECTIVES: What are your main learning objectives for this project?

DESCRIPTION OF THE PROJECT including:

- Title of Project
- Dates for the elective
- Focus of work (create a group of 5-10 artworks or poems, write a personal essay about a difficult ethical conversation between nurse and attending from two perspectives, write a paper on the history of healthcare reform in the US and the role of the AMA, etc)
- Consideration of resources Do you need access to films, books, articles on this topic? Are there organizations or individuals that will be involved? Do you need help to connect with them?
- Plan of work How will you use your time?
- Product Will you create a paper, exhibit of images, a poster, a PPT presentation, a collection of stories or reflections, something else?

FACULTY MENTOR/ADVISOR of your choosing to provide knowledge, advice and support with this project.
Learning Objectives

Please see the "Goals" section.

Schedule of Activities

Please see the "Goals" section.

Didactic Activities

This is an independent research project for self-directed learners. Students will identify their learning needs and then address them with appropriate resources with the help of their supervisor.

Required Reading

As appropriate to the individual project of the student.

Student Evaluations

Students must submit their project to their advisor on the last day of the elective for grading (pass/fail). Advisors may choose to meet with the student in person or may make other arrangements as needed.
Course Information

Course Director
Laurence B. Guttmacher M.D.
Contact Person
Mary Fisher (275-6435)
Class Year Name
History of Psychiatry
Class Code
MHU620
Elective Tags
Medical Humanities
Block Length
Need Course Director's Approval
Students
2
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Contact Dr. Guttmacher
What time should students report?
Contact Dr. Guttmacher
Who should they report to?
Dr. Guttmacher

Goal

The history of medicine, is filled with revealed truths that ultimately proved to be invalid. Students will better understand the social context of our current beliefs and practices, through reviewing historical approaches. This may be either through guided reading or working with primary source material. A written product will emerge at elective end.

Students are to contact Dr. Guttmacher at least two weeks prior to the course.

Content of the elective is subject to negotiation.

Learning Objectives

To consider critically a number of key accepted theories and treatments offered in psychiatry, and understand them in their historical context.

To reflect on the ways in which an accepted theory and/or practice may become ultimately discredited as new technology, new scientific or empirical knowledge emerges.

To understand the ways in which diagnosis, treatment, and theories as to underlying causation are often socially and culturally dependent.

To recognize the cyclic features of certain approaches within the field of psychiatry: from categorical to individual diagnosis; from institutionalization to deinstitutionalization of the mad; from mindlessness to
brainlessness; from theological to secular understanding of patients.

To learn about the key figures in the history of psychiatry.

To learn about the history of psychiatry in Rochester.

**Schedule of Activities**

This can take two forms, both of which would be subject to negotiation between Dr. Guttmacher and the student:

A. A project with primary research using the rich historical records of the Rochester Psychiatric Center. Since RPC’s history closely parallels that of American institutional psychiatry, exploration of commitment papers, data on admissions and discharges, etc can further our understanding of the history of American psychiatry.

B. A reading elective exploring in depth some aspect of the history of psychiatry.

Dr. Guttmacher will meet at least twice a week with the student engaged in this elective.

In either case, the rotation should lead to a presentation of the work, either to the Corner Society or to RPC and/or a paper.

**Didactic Activities**

See above

**Required Reading**

See above. Dependent on the project.

**Student Evaluations**

Dr. Guttmacher will offer feedback on the final product which emerges from the rotation.
Course Information

Course Director
Brenda D. Lee M.Ed.

Contact Person
Amy Perazzo, Amy_Perazzo@urmc.rochester.edu, 275-2175

Class Year Name
Indelible Impressions-African American Experiences and Resilience

Class Code
MHU621

Elective Tags
Medical Humanities

Block Length
4 Sessions (Fridays) Feb 5, 12, 19 and 26 Must attend all 4 sessions

Students
40

An elective experience is sometimes "split" by these weeks. Is it okay to split?

No

Available to the following medical students:

3rd Year

Where should students report?
Adolph Aud. or Case Method Room

What time should students report?
12:15 pm and sign the attendance roster

Who should they report to?
Dean Brenda Lee or Adrienne Morgan, PhD

Goal

Training to prepare students, faculty and staff to have respectful and effective interaction with diverse patients and peers, often focuses on the worldview of others, bias and reaction to difference. While training can enhance the awareness, competence and cultural humility of participants, there is seldom a focus related to preparing and empowering participants to respond when observing, hearing or being on the receiving end of bias.

The 2016 Indelible Impressions Elective will focus on skills to respond when observing or being on the receiving end of bias. In particular, the participants will explore when and how to respond to protect vulnerable individuals, to redress biased and/or misleading comments and situations especially when there is a power differential.

To have a common frame of reference, cases and trigger scenarios from experiences of members of the African Diaspora will be presented and discussed. Elective participants will have the opportunity to present personal scenarios for the discussion.

After participating in the elective students will have a broader appreciation for the unique challenges select members of the African Diaspora in America have experienced and how these challenges may influence health and care delivery.

Learning Objectives

• Recognize how bias has an influence on health and wellness.
• Awareness of personal biases, what underlies personal reactions and how both may influence your care delivery.

• Gain insight regarding the worldview of alleged offenders.

• Increase skills and confidence regarding when and how to respond to protect vulnerable individuals, to redress biased and/or misleading comments and situations especially when there is a power differential.

Schedule of Activities

Elective Requirements

Attend all four sessions – Fridays, February 5, 12, 19 and 26

• Participate in the discussion
• Submit a one page reflection for each session describing insight gained and impact on approach to patients, care delivery and comfort with responding to bias.

Deadlines for submitting the reflection assignments

Week I Monday, February 8, 2016
Week II Monday, February 15, 2016
Week III Monday, February 22, 2016
Week IV Monday, February 29, 2016

E-mail reflection assignments to: brenda_lee@urmc.rochester.edu

Didactic Activities

Update Pending

Required Reading

No supplementary reading will be assigned

Student Evaluations

• Years III and IV students – will receive one week of elective credit for completing the seminar.
Course Information

Course Director
Benedict F. DiGiovanni M.D.
Contact Person
Bonnie Schuster 585-275-5168 Bonnie_Schuster@urmc.rochester.edu
Class Year Name
Orthopaedic/Musculoskeletal Outpatient Elective
Class Code
MSK600
Elective Tags
Patient Care
Block Length
2 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Room G5510
What time should students report?
8am
Who should they report to?
Bonnie Schuster

Goal

To provide an overview of musculoskeletal medicine in an outpatient setting and to become familiar with diagnosis and treatment of common Orthopaedic problems.

Learning Objectives

By the end of the rotation the student should be able to:
- Become familiar with the fundamentals of taking an accurate history from patients with musculoskeletal problems.
- Learn basic physical examination of the musculoskeletal system.
- Become familiar with the vocabulary of fractures and to be able to describe clinical and x-ray findings.
- Apply splinting and casting techniques.
- Learn situations where an Orthopaedics consultation is necessary.
- Understand when surgical intervention is in the patient's best interest and when it is not and that different treatment methods can be appropriate for the same conditions in different patients.
- Become aware and evaluate the functional outcomes possible with modern techniques in trauma and reconstructive surgery.
- Assess the functional demands of the amateur and higher level athlete including their rehabilitation.

Schedule of Activities

Students are assigned to one on one preceptors in the Westfall Building D Musculoskeletal unit with a balanced exposure to subspecialty service from 8:00 AM to 5:00 PM on weekdays. Students will be assigned to the Emergency Room one evening/week as part of their regular schedule to work with the Orthopaedic Resident in active care and procedural skills.

Didactic Activities
- Daily morning conference schedules are posted outside the Plato Schwartz Library.
- Grand Rounds held every first Thursday at 7:00 a.m. and is required.
- Daily fracture rounds, presentations of the previous day’s Emergency Room fractures, at 7:15 AM (except Thursdays) is also required.

**Attendance at resident conferences at 6:30 AM is required.** Attendance at Monday Trauma conference at 6:30 AM is required. Other attendance depends on topics. This will be discussed at the start of the rotation.
- Three Core textbooks are loaned to students, serve as reading reference for various musculoskeletal disorders encountered during elective.
- The musculoskeletal pathophysiology of patients in the out patient Musculoskeletal Building will be used to its fullest emphasizing positive physical findings in the musculoskeletal system.
- Students will have the opportunity to independently obtain histories, examine and present patients for review to their preceptor.
- Injecting and aspirating of joints will be demonstrated including best techniques and approaches. Individual discussion with the preceptor will focus on differential diagnosis, assessment and evaluation, cost effective workup and treatment options, and coordination of the patient’s overall care with primary care physician.

### Required Reading

Students are strongly encouraged to read and refer to the 3 Core Textbooks loaned to them:

- Hoppenfeld’s text titled Physical Examination of the Spine and Extremities
- Bernstein’s textbook titled Musculoskeletal Medicine
- American Academy of Orthopaedic Surgeons textbook titled Essentials of Musculoskeletal Care

Students are welcome to browse amongst the collection of the Plato Schwartz Library as well.

### Student Evaluations

Evaluations of students will be based on their performance with emphasis upon interests, conscientiousness, interpersonal skills with patients and mentors, and presentation of patients.
Course Information

Course Director
Benedict F. DiGiovanni M.D.

Contact Person
Bonnie Schuster bonnie_schuster@urmc.rochester.edu 585-275-5168

Class Year Name
Orthopaedic Surgery Externship

Class Code
MSK601

Elective Tags
Consultation Service, Inpatient Service, Outpatient Service, Patient Care, Teaching

Block Length
4 weeks

Students
6

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
4th Year, Visiting

Where should students report?
G5527 Plato Schwartz Library in Orthopaedics

What time should students report?
6:30AM

Who should they report to?
Assigned Resident Team

Goal

To provide an overview of Orthopaedic surgery on an active inpatient services including pre and postoperative evaluation and exposure to outpatient care of the musculoskeletal system.

Learning Objectives

By the end of the rotation the student should be able to:
- Provide an overview in the field of Orthopaedic surgery and its division, i.e. Adult Reconstructive, Hand, Spine, Sports Medicine, Pediatrics, Tumor, Trauma, and Foot and Ankle.
- Learn to reduce common fractures and principals of casting and fracture care.
- Become familiar with the fundamentals of taking an accurate history from patients with musculoskeletal problems.
- Become familiar with the vocabulary of fractures and to be able to describe clinical and x-ray findings.
- Learn basic physical examination of the musculoskeletal system.
- Assist in the Operating Room and become familiar with the objectives of modern techniques in trauma and reconstructive surgery.
- Assist in the care of athletes and assist in interventions that restore their functional return to activity. This includes their rehabilitation.

Schedule of Activities

Students are assigned to be part of the team of an inpatient service in Orthopaedics. Rotations are usually 2 weeks long and the student is part of the team. Students are expected to be present for all morning conferences as posted outside the Plato Schwartz Library. Students will be expected to participate in all aspects of Orthopaedic care of patients on their service. This will include preoperative, intraoperative and postoperative care. They are encouraged to also participate in the orthopaedic care of ambulatory patients by their presence with residents and preceptors in the Westfall Road Musculoskeletal Unit. Assignments to specific subspecialty teams is done by the course director, Dr DiGiovanni. Preferences noted in advance will be
given consideration but not guaranteed. There will be emergency orthopedics care with night coverage assigned, about once/week.

**Didactic Activities**

- Daily morning conference schedules are posted outside the Plato Schwartz Library. Attendance is required.
- Grand rounds are held the first Thursday of each month at 7:00 AM.
- Daily fracture rounds or presentation of the previous day’s Emergency Room cases take place at 7:15 AM Monday thru Friday, except Thursday as posted.
- Students will be expected to read and present information on the basic pathophysiology of orthopaedic illnesses that they encounter in the Operating Room and on their inpatients. Physical exams and physical findings of orthopaedic conditions will be emphasized.

- Three Core textbooks are available to students, serve as reading reference for various musculoskeletal disorders encountered during elective.

**Required Reading**

Students are welcome to browse amongst the collection of the Plato Schwartz Library.

**Student Evaluations**

Evaluations of students will be based on their performance with emphasis upon interests, conscientiousness, interpersonal skills with patients and mentors, and presentation of patients.
Course Information

Course Director
Martha Johnson Gdowski Ph.D.
Contact Person
Martha Gdowski, x5-6592 Martha_Gdowski@urmc.rochester.edu
Class Year Name
Teaching Tutorial and Review in Human Structure
Class Code
NAN601
Elective Tags
Teaching
Block Length
2 weeks
Students
10
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
1-9576 at 8 AM on the morning of the first day of the elective.
What time should students report?
8:00 a.m.
Who should they report to?
Martha Gdowski

Goal

Provide lab instruction, participate in small-group teaching, attend lectures and staff meetings, and assist in preparing and grading examinations in our first year Human Structure and Function course. This elective is designed for students who wish to review their anatomy, histology and physiology, or for students who wish to gain teaching experience in anticipation of an academic career.

PREREQUISITE: Ranked in the top 20% of HSF.

Learning Objectives

By the end of the rotation the student should be able to:

· Assist students in identifying key anatomical structures as pointed out in the anatomy dissector.

· Assist students in identifying histologic structures as pointed out in the histology lab manual.

· Help students with dissection in the anatomy lab and prepare prosected specimens for student study.

· Assist students in identifying key histologic features on digitized images.

· Share with students the clinical relevance and applied importance of key histological, anatomical, and physiological concepts.
· Tutor students outside of formal class periods who need additional help learning human structure and function.

· Serve as an effective tutor in small group activities (PBL, problem sets, physiology lab exercises).

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**Schedule of Activities**

Attend all class sessions according to the following class schedule: Monday - Friday, 8-12; Mondays 1-5 (as scheduled); and Fridays 1-5 (as scheduled). Outside tutoring of students may be required. Additional afternoon sessions for reviews may be required.

Students interested in tutoring a PBL must be available for all sessions of the case. The schedule of PBL cases for Fall 2018 follows:

- **PBL 1:** 9/24, 9/26, 9/27
- **PBL 2:** 10/11, 10/15, 10/18
- **PBL 3:** 10/19, 10/22, 10/23
- **PBL 4:** 11/6, 11/8, 11/12
- **PBL 5:** 11/27, 11/28
- **PBL 6:** 12/10, 12/12, 12/13

No more than 2 days absence are permitted during a 2 week elective. If you need to miss additional days, you must either arrange to make that time up during different weeks or reschedule your NAN elective time for an interval that works with your schedule.

Note that the two week elective may be split into two non-consecutive weeks. You must contact the registrar to arrange a two-week elective that differs from the available options.

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**Didactic Activities**

Students are expected to read the Anatomy Dissector (copy provided), review in an Anatomy Atlas the material to be covered prior to each day’s dissection, review Histology exercises related to lab, and review Physiology material relevant to physiology exercises. Students also attend all Human and Structure Function lectures. During examination periods, the students will help the teaching faculty set up laboratory examinations, and proctor the examinations.

**Required Reading**

Relevant dissection instructions in the Dissector (provided), appropriate lab exercises in the histology manual (provided) and appropriate chapters in an Anatomy, Histology and Physiology textbook (texts you use in the course or one on open reserve in the Miner Library).

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**Student Evaluations**
To receive a grade of Pass, students must attend all required lectures and lab sessions, and come prepared to assist students with their laboratories and their learning of human structure and function. When appropriate, tutor students outside of scheduled class periods, prepare prosection material, and assist the faculty in setting up lab practical exams.

No more than 2 days absence are permitted during a 2 week elective. If you need to miss additional days, you must either arrange to make that time up during different weeks or reschedule your NAN elective time for an interval that works with your schedule.

Note that the two week elective may be split into two non-consecutive weeks. You must contact the registrar to arrange a two-week elective that differs from the available options.
Course Information

Course Director
Joel S. Pasternack M.D., Ph.D.
Contact Person
Joel Pasternack, M.D., Ph.D. (joel_pasternack@urmc.rochester.edu) Julie Pasternack, M.D. (julie_pasternack@urmc.rochester.edu)
Class Year Name
Medical Procedures in Anatomy Lab
Class Code
NAN604
Elective Tags
Research-Basic science
Block Length
1 week
Students
8
Prerequisites
(ALL) MED300 Medicine Clerkship, OBG300 Obstetrics and Gynecology Clerkship, SUR300 Surgery Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
4th Year
Where should students report?
Fifth floor Anatomy Lab
What time should students report?
Monday at 9:00 a.m.
Who should they report to?
Dr. Pasternack

Goal

Revisit human anatomy as it relates to successfully and safely performing medical procedures.

Learning Objectives

The student should be able to perform a variety of medical procedures on the lightly embalmed cadaver model. The student should learn to use the equipment necessary to safely and effectively perform the procedure.

Specifically the student should learn to do:
1. Endotracheal intubation
2. Cricothyroidotomy
3. Tracheostomy
4. Chest tube placement
5. Central Venous line placement – internal jugular, subclavian, femoral
6. Joint aspirations: hip, knee, ankle, shoulder, elbow, wrist, great toe mtp
7. Anesthetic nerve block placement– face, wrist, fingers, ankle, toes, femoral
8. Lumbar puncture
9. Assessment of traumatic laceration using topographical anatomic anticipation
10. Exploration of extremity lacerations, identification and repair of injured structures

In addition, students who are planning a residency in a surgical specialty will have an opportunity to do procedures related to their area of interest. Prior discussion with Course Director advised to optimize experience.
**Schedule of Activities**

This is a week long cadaver laboratory elective.

Course begins Monday morning at 9 am and will start with Central Lines and Joint aspirations as these procedures use the ultrasound which is best done prior to any incisions. By the end of the second day we will have addressed procedures 1-8 above. The rest of the week will be devoted to specific procedures determined by student interest.

Note: in this elective the students will suture closed the wounds created for procedures or dissections.

**Didactic Activities**

At the end of the week, each student will give brief presentation (15 minutes) on a specific procedure describing the indications, the relevant anatomy, and the technique.

**Required Reading**

Recommended textbooks:
- Roberts and Hedges’ Clinical Procedures in Emergency Medicine
- Essential Anatomy Dissector (by J.T. Hansen)
- Clinically Oriented Anatomy (by K.L. Moore & A.F. Dalley)
- Atlas of Human Anatomy (by F.H. Netter)
- Surgical Exposures in Orthopedics –the anatomic approach (by S. Hoppenfeld, & P. deBoer)

**Student Evaluations**

Students will be evaluated based on their demonstrated ability to do the procedure and explain the relevant anatomy.
**Course Information**

Contact Person  
Lorie Wolfanger, 275-6380 lorie_wolfanger@urmc.rochester.edu  
Class Year Name  
Ambulatory Neurology  
Class Code  
NEU610  
Elective Tags  
Outpatient Service, Patient Care  
Block Length  
2 weeks - Must get prior approval before scheduling  
Students  
1  
Prerequisites  
NEU300 Neurology Clerkship  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year  
Where should students report?  
Students will receive schedule detailing where and when to report on the first day.  
What time should students report?  
Per schedule.  
Who should they report to?  
Per schedule

**Goal**

To learn how to evaluate and treat neurological disorders seen in an outpatient neurology practice.

This elective is offered on a very limited basis and is reserved for students seriously considering a career in neurology. Prior approval from the course director is required before scheduling this elective.

**Learning Objectives**

To learn how to evaluate and treat common neurological outpatient problems, including headache, dizziness, back and neck pain, and peripheral nerve disorders.

To learn how to evaluate and treat some of the disorders seen in a subspecialty neurology outpatient clinic, including epilepsy, multiple sclerosis, neuromuscular disorders including muscular dystrophy, peripheral neuropathies and amyotrophic lateral sclerosis; movement disorders, including Parkinson’s disease, Huntington’s disease, and Tourette’s syndrome; and Alzheimer’s disease and other dementias.

**Schedule of Activities**

The student will spend each day in one of the subspecialty neurology outpatient clinics, with exposure to epilepsy, stroke, neuromuscular diseases, multiple sclerosis and movement disorders.

**Didactic Activities**

· Morning Report on Monday, Tuesday and Wednesday mornings.
· Neuroradiology/Neurosurgery conference on Thursday mornings.
· Noon clinical conferences.
· Neurology Grand Rounds on Friday mornings.

**Required Reading**


**Student Evaluations**

The Neurology Clerkship grading committee reviews the narrative evaluations for each student and assigns a consensus grade.

Each student will receive a letter containing a summary of his/her narrative evaluations and the final grade in the neurology elective approximately six weeks following completion of the Neurology experience.
Course Information

Course Director
Ralph Francis Jozefowicz M.D.
Contact Person
Lorie Wolfanger, 275-6380 lorie_wolfanger@urmc.rochester.edu
Class Year Name
General Neurology Consultation Service
Class Code
NEU612
Elective Tags
Consultation Service, Teaching
Block Length
2 weeks
Students
2
Prerequisites
NEU300 Neurology Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Student will attend Morning Report in Room 5-5220 (Garvey Room) on the first day.
What time should students report?
7:30 am
Who should they report to?
Resident they are assigned to

Goal

To learn the principles and skills underlying the recognition and management of neurologic diseases a general medical practitioner is most likely to encounter in practice.

Learning Objectives

1. To develop skills in obtaining complete neurological histories, in performing accurate neurological examinations, and in selecting appropriate therapies on a general neurology consultation service in a tertiary referral center.
2. To gain in-depth knowledge of major categories of neurological disease, with special emphasis on stroke, epilepsy, coma and mental status changes, movement disorders, neuromuscular disorders, demyelinating disorders, infections of the nervous system, tumors of the nervous system, head trauma and dementia.
3. To gain experience in the appropriate ordering and interpretation of neurodiagnostic tests, including head and spine CT and MR scans, EEG, Evoked Potential Testing, Neurovascular testing, and EMG and nerve conduction studies.
4. To develop and improve written and oral communication skills.

Schedule of Activities

The General Neurology Consultation Service provides neurology consultations to the medical and surgical services, emergency room and intensive care units. The service consists of a neurology Attending, a neurology PGY-3 and a medical student.

Each student will evaluate, present and write-up approximately one new patient per day and will be responsible for following his/her patients during hospitalization. The student is encouraged to take Evening Call once or
twice with his or her resident until 9:00 PM. Students are expected to attend either Saturday or Sunday morning rounds. The remainder of the weekend is free.

The student on the neurology consultation service will be responsible for obtaining a complete history, performing a complete general and neurological examination, generating a differential diagnosis and formulating a plan of treatment for all patients that are assigned to him/her. He/she will be responsible for presenting each assigned patient as needed on rounds, and for completing the work-up on the same day that the patient is evaluated.

The student will work as a member of the team to which he/she is assigned, and will participate in all work rounds, attending rounds, and resident conferences.

The student is responsible for reviewing all laboratory studies obtained on his/her patients, including CT and MR scans, EEGs, EMGs, evoked potentials, and lumbar punctures.

**Didactic Activities**

Attend morning report, work rounds, attending rounds and noon conferences.

**Required Reading**


**Student Evaluations**

The final grade in the General Neurology Consultation Service is based on the narrative evaluations of clinical performance by faculty and residents. Each neurology attending and neurology resident who has had at least one week of contact time with the student is asked to complete a narrative evaluation form on-line. Evaluators are specifically asked to comment on the academic performance, clinical performance, and personal and professional qualities of the student.

The Neurology Clerkship grading committee reviews the narrative evaluations for each student and assigns a consensus grade.

Each student will receive a letter containing a summary of his/her narrative evaluations and the final grade in the neurology elective approximately six weeks following completion of the General Neurology Consultation Service.
NEU615 Pediatric Neurology

Course Information

Course Director
Jonathan W. Mink M.D., Ph.D.
Contact Person
Lorie Wolfanger 275-6380 lorie_wolfanger@urmc.rochester.edu
Class Year Name
Pediatric Neurology
Class Code
NEU615
Elective Tags
Consultation Service, Inpatient Service, Outpatient Service, Teaching
Block Length
2 weeks
Students
2
Prerequisites
NEU300 Neurology Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Student will receive schedule detailing where and when to report at least one week prior to starting.
What time should students report?
see above
Who should they report to?
see above

Goal

To become familiar with the important characteristics of the neurological history and examination in children of various ages.

Learning Objectives

1. To perfect the student's history-taking skills and neurologic exam in infants and children.
2. To learn the interrelationship of abnormalities of the nervous system with normal growth and development of the nervous system.
3. To provide the student with an exposure to and a forum for discussion of a wide variety of neurologic problems in pediatric patients.
4. To develop and improve written and oral communication skills.

Schedule of Activities

Students will be assigned to the inpatient and/or outpatient child neurology services for 2-4 weeks. Assignment will be based on several factors including, but not limited to, student preference, number of students, and whether the student has already spent time on the child neurology service during the MBB II clerkship.

INPATIENT CHILD NEUROLOGY
While on the inpatient service, the student will work up at least three new inpatients or consultations per week. This will include a detailed neurologic history, examination, formulation of the case, and discussion of the problem, and will be done with guidance from the neurology resident on service. Patients will be presented to the neurology attending on rounds.
The student is expected to learn to make anatomical-physiological-pathological-biochemical formulations and correlations on each case evaluated. He/she is encouraged to ask questions regarding the patients he/she is involved with during rounds to both the neurology resident and the attending. The student may be asked to prepare and present a patient at the weekly Pediatric Neurology Conference.

OUTPATIENT CHILD NEUROLOGY

On the first day of the rotation, the student will meet briefly with Magda Ramzy in room 5-5511 (phone 5-4783) to review the clinic schedule for the week. The child neurology clinics meet on the 6th floor of the Ambulatory Care Facility with other pediatric specialties.

While on the outpatient service, the student will attend all of the outpatient child neurology clinics. The clinics meet Monday - Thursday from 8:30 or 9:00 am to 12:00 noon and from 1:00 - 5:00 pm. There is no clinic on Friday mornings due to Neurology Grand Rounds. Friday afternoon clinics are scheduled to see urgent patients as needed. The student will obtain the history and examine at least one new patient each clinic session. In addition, he/she will see a number of patients for follow-up visits. All patients will be reviewed with an attending child neurologist. The student may be asked to write up a discussion on the case.

The student is expected to learn to make anatomical-physiological-pathological-biochemical formulations and correlations on each case evaluated.

Didactic Activities

While on the inpatient service, the student will participate in the various teaching conferences of the Department of Neurology at Strong Memorial Hospital, including daily work rounds with the residents. While on the outpatient service, students will participate in select conferences, including morning report, noon conferences, the weekly Child Neurology conference, and Neurology Grand Rounds.

Required Reading


Student Evaluations

The final grade in the Pediatric Neurology Service is based on the narrative evaluations of clinical performance by faculty and residents. Each neurology attending and neurology resident who has had at least one week of contact time with the student is asked to complete a narrative evaluation form. Evaluators are specifically asked to comment on the academic performance, clinical performance, and personal and professional qualities of the
The Neurology Clerkship grading committee reviews the narrative evaluations for each student and assigns a consensus grade.

Each student will receive a letter containing a summary of his/her narrative evaluations and the final grade in the neurology elective approximately one month following completion of the Pediatric Neurology Service.
Course Information

Contact Person
Lorie Wolfanger 5-6380 lorie_wolfanger@urmc.rochester.edu
Class Year Name
Neuro-Oncology Elective
Class Code
NEU617
Elective Tags
Consultation Service, Patient Care
Block Length
2-4 wks - Must get prior approval before scheduling
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
2nd Year, 3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Wilmot Cancer Ctr, Room 2-0767
What time should students report?
8:30 AM
Who should they report to?
Nimish Mohile, M.D.

Goal

To learn the principles and skills underlying the recognition and multi-disciplinary management of adult and pediatric brain tumors, central nervous system metastases and neurologic complications of cancer.

Learning Objectives

1. To gain in-depth knowledge about the etiology, pathogenesis, and management of primary and secondary adult and pediatric brain tumors.
2. To gain exposure to the multidisciplinary tools used in the assessment and treatment of brain tumors including neurosurgical procedures, radiation treatment techniques and neuropathologic evaluation of surgical specimens.
3. To gain experience in recognizing, evaluating and treating neurologic complications of cancer.
4. To develop communication skills with a focus on discussing prognosis, treatment options and experimental therapies with cancer patients.

Schedule of Activities

Outpatient Activities
Each student is assigned to 5 half-days of outpatient clinic. The student will see new patients as well as selected follow-up patients. They will be responsible for evaluating, presenting and writing notes on the outpatients that they see. The student will present new brain tumor patients to the relevant multi-disciplinary brain tumor conference. During the Adult brain tumor clinic, the student will have an opportunity to interact with and see patients with neurosurgery, radiation oncology and the brain tumor social worker.

Inpatient Activities
The student will have the opportunity to see inpatient consultations on patients with newly diagnosed brain tumors or hospitalized cancer patients with new neurologic symptoms. The student will be responsible for evaluating, presenting and writing notes on these patients. They will continue to follow the patient as long as they need active neuro-oncologic care.
**Didactic Activities**

Students will participate in the three cancer management conferences to gain exposure to multi-disciplinary management and discussions of cancer patients: lymphoma, adult brain tumor and pediatric brain tumor. The student will also have the option to attend neurology grand rounds and cancer center grand rounds if they do not conflict with a longitudinal activity related to an assigned patient. The student will meet with the elective director at the beginning of the rotation and will be provided with seminal articles and reviews in neuro-oncology. The student will be responsible for reading these and they will be discussed with one of the faculty members at the weekly elective meeting. At the final weekly elective meeting, the student will meet with Dr. Mohile and Dr. Korones and will be prepared to briefly present and discuss their assigned longitudinal patients.

**Required Reading**

Intracranial Tumors: Diagnosis and Management. DeAngelis et al., 2002


**Student Evaluations**

The final grade in the neuro-oncology elective is based on the narrative evaluations of clinical performance by faculty and residents. Each faculty member who has had substantive contact time with the student is asked to complete a narrative evaluation form on-line. Evaluators are specifically asked to comment on the academic performance, clinical performance, and personal and professional qualities of the student.

An evaluation committee consisting of Drs. Mohile and Korones reviews the narrative evaluations for each student and assigns a consensus grade.
Course Information

Course Director
Ralph Francis Jozeowicz M.D.
Contact Person
Lorie Wolfanger 5-6380 lorie_wolfanger@urmc.rochester.edu
Class Year Name
Stroke Consultation Service Elective
Class Code
NEU618
Elective Tags
Consultation Service
Block Length
2-4 weeks
Students
2
Prerequisites
NEU300 Neurology Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Students will receive schedule detailing where and when to report on the first day.
What time should students report?
Per schedule.
Who should they report to?
Per schedule.

Goal

To learn the principles and skills underlying the recognition and multi-disciplinary management of cerebrovascular disease.

Learning Objectives

1. To recognize the signs and symptoms of acute ischemic stroke.
2. To utilize current treatment guidelines for ischemic stroke, especially concerning blood pressure management, anticoagulation, and use of thrombolytic therapy.
3. To identify common risk factors for stroke.
4. To utilize current recommendations for the use of anti-platelet agents and oral anti-coagulants in stroke prevention.
5. To utilize strategies for preventing and treating increased intracranial pressure.
6. To perform and record the National Institutes of Health Stroke Scale.

Schedule of Activities

The acute stroke service provides consultations for patients suspected of having an acute stroke, TIA, intracerebral hemorrhage or subarachnoid hemorrhage. The service consists of a neurology attending, a neurology PGY-3, a PM&R PGY-1, and a medical student. Each medical student will evaluate, present and write-up approximately one new patient per day and will be responsible for following his/her patients during hospitalization. Each student will also take Evening Call with the neurology resident once or twice per week.
until 9:00 PM. Students are expected to attend either Saturday or Sunday morning rounds. The remainder of
the weekend is free. The student will be responsible for obtaining a complete history, performing a complete
general and neurological examination, generating a differential diagnosis and formulating a plan of treatment
for all patients that are assigned to him/her. He/she will be responsible for presenting each assigned patient as
needed on rounds, and for completing the work-up on the same day that the patient is evaluated. The student
is responsible for reviewing all laboratory studies obtained on his/her patients, including CT and MR scans,
EEGs, EMGs, evoked potentials, and lumbar punctures.

Didactic Activities

Attend morning report, work rounds, attending rounds and noon conferences.

Required Reading

Wilkins, 2006

Student Evaluations

The Neurology Clerkship grading committee reviews the narrative evaluations for each student and assigns a
consensus grade. Each student will receive a letter containing a summary of his/her narrative evaluations and
the final grade in the neurology elective approximately six weeks following completion of the Neurology
experience.
Course Information

Course Director
Ralph Francis Jozefowicz M.D.
Contact Person
Lorie Wolfanger, 585-275-6380, lorie_wolfanger@urmc.rochester.edu
Class Year Name
Neurology Inpatient Service
Class Code
NEU619
Elective Tags
Consultation Service, Teaching
Block Length
2 weeks
Students
4
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Students will receive schedule detailing where and when to report on the first day.
What time should students report?
As per schedule
Who should they report to?
As per schedule

Goal

To learn how to evaluate and treat neurological disorders seen in the inpatient setting.

Learning Objectives

Description: The Neurology Inpatient Service consists of a 24-bed unit located on 5-1600. The neurology inpatient service is responsible for the care of all patients with neurologic disorders admitted from the emergency department, from the neurology outpatient clinics, or electively. The service is divided into two teams, each consisting of a neurology attending, a neurology PGY-2, a neurology, psychiatry or anesthesiology PGY-1 and one or two medical students.

Schedule of Activities

Each student will evaluate, present and write-up approximately one new patient daily and will be responsible for following his/her patients during hospitalization. Students will participate in the various teaching conferences of the Department of Neurology at Strong Memorial Hospital, including daily attending rounds and daily work rounds with the residents. Students are expected to attend either Saturday or Sunday morning rounds. The remainder of the weekend is free.

Didactic Activities

The schedule of required and recommended lectures and activities is discussed the first day.

Required Reading


**Student Evaluations**

The final grade in the Neurology Inpatient Service elective is based on the narrative evaluations of clinical performance by faculty and residents. Each neurology attending and neurology resident who has had at least one week of contact time with the student is asked to complete a narrative evaluation form on-line. Evaluators are specifically asked to comment on the academic performance, clinical performance, and personal and professional qualities of the student.

The Neurology Clerkship grading committee reviews the narrative evaluations for each student and assigns a consensus grade.

Each student will receive a letter containing a summary of his/her narrative evaluations and the final grade in the neurology elective approximately six weeks following completion of the Neurology Inpatient Service elective.
NEU620 Highland Neurology Consultation Service

Course Information

Course Director
Ralph Francis Jozefowicz M.D.
Contact Person
Lorie Wolfanger, 585-275-6380, lorie_wolfanger@urmc.rochester.edu
Class Year Name
Highland Neurology Consultation Service
Class Code
NEU620
Elective Tags
Consultation Service, Teaching
Block Length
2 wks
Students
1
Prerequisites
NEU300 Neurology Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Student will receive schedule detailing where and when to report at least one week prior to starting.
What time should students report?
As per schedule
Who should they report to?
As per schedule

Goal

To learn how to evaluate and treat neurological disorders seen in a community hospital setting.

Learning Objectives

Description: Medical students will spend two weeks on the Highland Hospital inpatient neurology consult service, working closely with a first-year neurology resident and an attending neurologist. Medical students will encounter a full spectrum of neurological diseases at Highland Hospital. With only one resident and one student on service, and with a relatively lighter case load, there is a significant amount of direct interaction between medical students and attendings at Highland.

Schedule of Activities

• Hours: Monday – Friday, 8:00 AM – 5:00 PM
• Students are excused on Friday Mornings to attend Grand Rounds at Strong. They are expected to return to Highland on Friday afternoon.

Didactic Activities

The schedule of required and recommended lectures and activities is discussed at the first day.

Required Reading

Student Evaluations

The final grade in the HH Neurology Consultation Service is based on the narrative evaluations of clinical performance by faculty and residents. Each neurology attending and neurology resident who has had at least one week of contact time with the student is asked to complete a narrative evaluation form on-line. Evaluators are specifically asked to comment on the academic performance, clinical performance, and personal and professional qualities of the student.

The Neurology Clerkship grading committee reviews the narrative evaluations for each student and assigns a consensus grade.

Each student will receive a letter containing a summary of his/her narrative evaluations and the final grade in the neurology elective approximately six weeks following completion of the HH Neurology Consultation Service.
Course Information

Course Director
Debra E. Roberts M.D., Ph.D.
Contact Person
Pamela Marks pamela_marks@urmc.rochester.edu
Class Year Name
NeuroMedicine ICU
Class Code
NEU621
Elective Tags
Inpatient Service
Block Length
2 weeks
Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Directly to unit 8-1200 and ask for the APP.
What time should students report?
8am
Who should they report to?
APP

Goal

• To learn how to manage the post-operative care of neurosurgery patients, such as ICP management, SAH/ICH management, and tumor removal.
• To be exposed to neurological diseases that requires intensive care treatment such as acute neuromuscular diseases and seizure disorders.
• To learn to care for patients with other organ support devices such as ventilator management and CRRT.
• To learn how to identify and treat infections in neurologically ill patients.
• To learn how to manage common critical care problems such as, but is not limited to, acute coronary syndrome, shock, sepsis, arrhythmias, ARDS, and AKI.
• To learn how to work in a unit with a multidisciplinary provider model including critical care Nurse Practitioners (NP), Physician Assistants (PA), residents from neurology, neurosurgery, and ENT, and critical care fellow’s from Anesthesiology, Neurology, Emergency Medicine and Internal Medicine.

Learning Objectives

The Medical student on the NeuroMedicine ICU service will be assigned patients to admit, evaluate, and present at morning rounds. All evaluation and procedures on patients may be done by the student under appropriate supervision by the resident and/or Fellow.

Schedule of Activities

Daily rounds will begin on the Neuro ICU beginning at 8:00am and will end around 12:30pm. Evening work rounds begin at about 5pm.

Didactic Activities

Informal teaching sessions are part of rounds by attending/fellow or selected personnel.
The Adult Neurology Inpatient Unit consists of twenty-four beds, which are divided among three teams: the Red and Blue Teams (Neurology Inpatient Service), and the Green Team (Epilepsy Service). The Neurology Unit is responsible for the care of all patients with neurologic disorders admitted from the emergency department, from the neurology outpatient clinics, or electively. The Red and Blue Teams follow all patients admitted to the neurology inpatient service, with the exception of those admitted to the Epilepsy Service for long-term video EEG monitoring. Each team consists of a neurology PGY-2, a neurology, psychiatry or anesthesiology PGY-1, a 3rd year medical student and, on occasion, a 4th year neurology subintern. The neurology PGY-4 (chief resident) supervises both of these teams. Each team alternates admitting patients to their respective team.

The fourth year subinterns work together with the Neurology PGY-2’s on the Red or Blue Teams. They function as a substitute intern (PGY-1), splitting the patients and admissions on their team. They also write progress notes daily on all inpatients on their teams.

**Didactic Activities**

Attend morning report, work rounds, attending rounds and noon conferences.

**Required Reading**


**Student Evaluations**

The final grade for the Neurology Sub-Internship is based on the narrative evaluations of clinical performance by faculty and residents. Each neurology attending and neurology resident who has had at least one week of contact time with the student is asked to complete a narrative evaluation form on-line. Evaluators are specifically asked to comment on the academic performance, clinical performance, and personal and professional qualities of the student. The Neurology Clerkship grading committee reviews the narrative evaluations for each student and assigns a consensus grade. Each student will receive a letter containing a summary of his/her narrative evaluations and the final grade for the neurology subinternship approximately six weeks following completion of the rotation.
Course Information

Course Director
Katrina F. Nicandri M.D.
Contact Person
Dr. Katrina Nicandri/Chris Glantz, x56036, chris_glantz@urmc.rochester.edu
Class Year Name
Ambulatory Ob-Gyn
Class Code
OBG605
Elective Tags
Outpatient Service, Patient Care
Block Length
4 weeks
Students
1
Prerequisites
(ALL) MED300 Medicine Clerkship, OBG300 Obstetrics and Gynecology Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
4th Year, International Visiting, Visiting
Where should students report?
2-3292
What time should students report?
8:00am
Who should they report to?
Dr. Nicandri/Dr. Glantz

Goal

The goal is to provide students with a variety of experiences in outpatient obstetrics and gynecology.

Learning Objectives

1. Gain experience in performing pelvic examinations
2. Develop proficiency assessing pregnant women (high and low risk prenatal care)
3. Improve skill in triage and management of abnormal Pap smears in Colposcopy Clinic
4. Participate in the evaluation and management of women with undergoing genetic counseling in the antenatal period.
5. Interpret basic obstetrical and gynecologic ultrasounds
6. Develop diagnostic and management skills for common gynecologic problems.
7. Learn to evaluate and care for women with family planning needs.
8. Learn to evaluate and care for women with complex pelvic pain syndromes.

Schedule of Activities

Students on this rotation work with General OB-GYN, Family Planning, Genetics, and MFM faculty as well as OB-GYN Generalist Faculty and residents in the ambulatory setting. The clinical experience is divided between outpatient gynecology, family planning, high-risk obstetrics, genetics, and OB-GYN ultrasound, usually encompassing the hours of 8:00 AM to 5:00 PM. Outpatient sites are the Lattimore Building and at the Red Creek offices.
### Didactic Activities

There are various educational conferences on Thursday mornings (grand rounds, OB/GYN morbidity and mortality, resident lectures, etc.) that the student attends. Dr. Nicandri will meet with students weekly to discuss a variety of topics relevant to OB/GYN.

### Required Reading

There is no required reading per se, but familiarity with either Williams or Gabbe's Obstetrics, and Droegemueller's Gynecology is expected.

### Student Evaluations

Evaluations are based on assessments from the faculty and residents. Important elements are enthusiasm & interest, willingness & availability to actively participate in patient care, and evidence of active learning through reading and discussion with faculty.
Course Information

Course Director
John T. Queenan M.D.
Contact Person
Course Director: John T. Queenan, Jr., MD; Contact: Anne Tedrow 275-7891

Class Year Name
Reproductive Endocrinology and Infertility

Class Code
OGB620

Elective Tags
Consultation Service, Outpatient Service, Patient Care

Block Length
1 week

Students
1

Prerequisites
(ALL) MED300 Medicine Clerkship, OBG300 Obstetrics and Gynecology Clerkship

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
4th Year, Visiting

Where should students report?
Our clinical setting is now located at 500 Red Creek Drive Suite #220 in Henrietta, NY Phone: (585) 487-3378.
Email me before the start of your rotation: john_queenan@urmc.rochester.edu

What time should students report?
8:00 am on the first day of the rotation Suite #220 Strong Fertility Center 500 Red Creek Drive Rochester, NY 14623

Who should they report to?
Appointment secretary@Front desk

Goal

You will gain experience in the evaluation and treatment of infertility patients. Students will be present at surgeries, in vitro fertilization procedures, office evaluations, and radiologic procedures. They will also have time to see activities that place in our Andrology lab and our Embryology lab which are both on site.

Learning Objectives

By the end of the elective the student should be able to:
Perform a comprehensive reproductive history in the couple with infertility or the woman with a reproductive endocrinopathy.
Describe the basic work up for infertility.
Identify the indications for assisted reproductive technologies.
Understand the role of surgery in the treatment of infertility.
Explain the appropriate work up for anovulation.

Schedule of Activities

Students will be expected to see patients with one of the attending physicians from 8:00am to 5:00pm, weekdays. On some days there will be surgery, ultrasound exams or hysterosalpingograms.

Didactic Activities
Resident lecture series: Thursdays: 9:00-11:00. These lectures are aimed at the residents, but students should be able to take advantage, as well.
OB/GYN grand rounds: Thursdays, 7:30-8:30 a.m.
IVF conference: Mondays 3:15-4:30 pm: review of patients in treatment, new patients and follow up.
Division research seminars: (optional) Thursday mornings following Grand rounds
Joint conferences with medical endocrinology: Third Friday each month, 7:45 a.m.
OB/GYN Journal Club: is part of Grand Rounds Schedule and also meets at night on a quarterly basis.

**Required Reading**


* Other materials may be recommended to supplement the conferences.

**Student Evaluations**

Students should keep a log recording numbers and types of procedure to help document that learning objectives have been achieved. They will be expected to participate in conferences. They must receive a satisfactory evaluation from the attending physicians with whom they have worked.
**Course Information**

Course Director  
Lisa M. Gray M.D.
Contact Person  
Dr. Lisa Gray, (585) 275-7480, lisa_gray@urmc.rochester.edu
Class Year Name  
Maternal-Fetal Medicine
Class Code  
OBG621
Elective Tags  
Inpatient Service, Outpatient Service, Patient Care
Block Length  
4 weeks
Students  
1
Prerequisites  
(ALL) MED300 Medicine Clerkship, OBG300 Obstetrics and Gynecology Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No
Available to the following medical students:  
4th Year, Visiting
Where should students report?  
2-3237
What time should students report?  
8:00 am
Who should they report to?  
Dr. Gray

**Goal**

The goal is to provide students with in-depth exposure to various aspects of Maternal-Fetal Medicine (MFM).

**Learning Objectives**

1. Manage normal and complicated labor and delivery
2. Understand concepts of antepartum and intrapartum management of selected high-risk pregnancies (e.g. preeclampsia, diabetes, preterm labor, premature rupture of membranes, placental abruption, etc.)
3. Perform and interpret a basic obstetrical sonogram
4. Interpret antepartum and intrapartum fetal heart rate tracings
5. Understand the role of the Maternal-Fetal Medicine subspecialist

**Schedule of Activities**

Students on this rotation are overseen by the MFM faculty and OB Chief Resident at Strong Memorial Hospital. The clinical experience is divided between inpatient and outpatient management of high-risk (and some low-risk) pregnancies, and the student will have the opportunity to follow antepartum and intrapartum patients. The course entails rotations through the resident high-risk obstetrical clinics, Ob/Gyn ultrasound, Labor and Delivery, and the antepartum inpatient obstetrical service. Generally two weeks are spent on outpatient and two weeks on inpatient, although time allocations can be flexible.

**Didactic Activities**

There are several meetings each week to discuss high-risk patient management, as well as a research
meeting, Ob/Gyn grand rounds, and combined Ob/Peds case presentations. There are also optional resident conferences that the student may attend, as desired. I meet with the students weekly on an informal basis to discuss topics of MFM interest.

**Required Reading**

There is no required reading per se, but familiarity with either Williams Obstetrics or Gabbe's Obstetrics is expected.

**Student Evaluations**

Evaluations are based on assessments from the MFM faculty and residents. Important elements are enthusiasm & interest, willingness to actively participate in patient care, availability in Labor and Delivery and outpatient clinics, and evidence of active learning through reading and discussion with faculty.
Course Information

Course Director
Sarah J. Betstadt M.D., M.P.H.
Contact Person
Donna Darby, 585-273-2029, donna_darby@urmc.rochester.edu
Class Year Name
Family Planning
Class Code
OBG622
Elective Tags
Inpatient Service, Outpatient Service, Patient Care
Block Length
2 wks
Students
1
Prerequisites
OBG300 Obstetrics and Gynecology Clerkship
An elective experience is sometimes “split” by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
URMC Women’s Health Practice at Lattimore 125 Lattimore Road. Rochester, NY 14642
What time should students report?
8:15am
Who should they report to?
Dr. Sarah Betstadt, Dr. Amy Harrington or Alison Carletta, NP; Dr. Natalie Whaley

Goal

To become familiar with the epidemiological, psychosocial, medical and surgical aspect of abortion and contraceptive care.

Learning Objectives

In this Reproductive Health 2-week elective, we aim to teach you:

1. The epidemiology of unintended pregnancy and abortion care in the U.S
2. The medical evidence foundations of safe abortion care in the first and second trimesters
3. The psychosocial aspects of counseling and caring for women who are having abortions
4. The surgical process of first and second trimesters abortions, with hands on experience
5. Patient educational approaches to contraceptive counseling and care
6. The surgical process of contraceptive procedures (arm and uterine implant insertion), with hands on experience

Schedule of Activities

Week One

1. Monday Office preoperative patient visits (1st and 2nd trimester patients)
2. Tuesday AM: 1st trimester surgical abortion procedures. PM: Office preoperative patient visits
3. Wednesday Operating Room 2nd trimester surgical abortion procedures OR Complex Contraception Clinic (select wednesdays)
4. Thursday Pending: Office preoperative patient visits OR Planned Parenthood
session 5. Friday Pending: OR 2nd trimester surgical abortion procedures OR General Obgyn office OR Ultrasound OR Labor and Delivery Week Two. Monday Office preoperative patient visits (1st and 2nd trimester patients)2. Tuesday AM: 1st trimester surgical abortion procedures. PM: Office preoperative patient visits3. Wednesday Operating Room 2nd trimester surgical abortion procedures OR Complex Contraception Clinic (select wednesdays)4. Thursday Pending: Office preoperative patient visits OR Planned Parenthood session, Elective Presentation (topic of your choice) 5. Friday Pending: OR 2nd trimester surgical abortion procedures OR General Obgyn office OR Ultrasound OR Labor and Delivery

Didactic Activities

Journal Club presentation.

Thursday AM: Grand Rounds and Obgyn Resident Lectures pending schedule.

Required Reading

Will be emailed prior to starting the elective.

Please review: www.guttmacher.org

Student Evaluations

Students should log all procedures they attend during the rotation.

The attending(s) with whom the student worked will do an in-person evaluation during last day of rotation.
**Course Information**

Course Director  
David Reny Lambert M.D.  
Contact Person  
Jane Risolo, 275-5910, jane_risolo@urmc.rochester.edu  
Class Year Name  
Professionalism in Medicine  
Class Code  
OME605  
Elective Tags  
Teaching  
Block Length  
1 week  
Students  
12  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year, MD/PhD in Research  
Where should students report?  
PBL rooms per published orientation schedule  
What time should students report?  
per orientation schedule  
Who should they report to?  
Jane Risolo

**Goal**

To broaden the student’s professional development and understanding of ethical dilemmas in medical education and careers in medicine.

MD/PhD, Third year students and forward are eligible to take the elective.

COURSE DIRECTORS    David Lambert, M.D.

**Learning Objectives**

- Identify and interpret the ethical dilemmas and professionalism concerns in the case scenarios
- Discuss and explain the subtle nuances in professionalism and ethical cases
- Develop skills in facilitating an orientation Professional Development Group

**Schedule of Activities**

Most of the activities will occur during the Year I Orientation Week, August 14-18, 2017
Didactic Activities

· Attend the orientation for the new Professional Development Group facilitators

· Co-facilitate an orientation Professional Development Group for the incoming medical students

· Attend the White Coat Ceremony

· Attend the Friday integration conference for the incoming class

· Prepare a one page summary on the lessons learned from co-facilitating the Professional Development Group and provide an assessment on how the week impacts on the incoming students' professional development

· Research, prepare and submit a professionalism case scenario for use in future Orientation Professional Development Groups, for the SMD Honor Board Educational sessions and/or in the Advisory Dean Groups.

Required Reading

URSMD Professional Development Facilitator Guide and related documents

Student Evaluations

· To receive a grade of Pass, student must attend all the scheduled sessions and prepare and submit a professionalism case scenario. The student must provide what topic of professionalism the case addresses - i.e. Issues of power differentials in the medical profession - and also provide a scholarly reference to support the information.

· A summary of your experience as a PD instructor.
Course Information

Course Director
Mithra Osiris Gonzalez M.D.
Contact Person
Patty DeBurro - Education Coordinator 273-3954
Class Year Name
Basic Ophthalmology Elective
Class Code
OPH600
Elective Tags
Outpatient Service
Block Length
1 week
Students
12
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Ophthalmology Resident Clinic, which is located on the 3rd floor right off the green elevators.
What time should students report?
8:00 am
Who should they report to?
Patty DeBurro

Goal

To provide an overview of concepts and techniques in Ophthalmology with are essential for all physicians.

Learning Objectives

By the end of the rotation the student should be able to:
Recognize the significant external and internal structures of the normal eye and perform basic examinations.
Evaluate a patient complaining of acute visual loss and construct the differential diagnosis, recognizing those situations where urgent action is necessary.
Have familiarity with the major causes of chronic slowly progressive visual loss in adults, namely Glaucoma, Cataract, Macular Degeneration, and be able to identify the basic characteristics of each.
Determine whether a patient with a red eye requires the prompt attention of an Ophthalmologist.
Evaluate common ocular and orbital injuries and determine whether the problem requires the attention of an Ophthalmologist.
Recognize the signs and symptoms of amblyopia and strabismus. Be able to perform the necessary tests to screen for these conditions, and if the patient is a child, be aware of the need to arrange for prompt ophthalmologic consultation, particularly when intraocular disease is suspected.
Perform a basic neuro-ophthalmologic examination and recognize and interpret the more common symptoms and signs of neuro-ophthalmologic disorders.
Determine when a patient with diabetes requires referral to an ophthalmologist, and to become familiar with the ocular findings associated with diabetes.
Become familiar with the ocular findings associated with systemic hypertension, thyroid disease, Sarcoidosis, Acquired Immune Deficiency Syndrome, and Herpetic Eye Disease.
Become familiar with the use of drugs to facilitate an eye examination, including how to stain the corneal surface with Fluorescein, anesthetize the cornea with topical anesthetic, and to dilate the pupils with one or more mydriatic agents.
Become familiar with the use of basic examining and testing equipment in ophthalmology including visual acuity charts, direct ophthalmoscope, hand light, and slit lamp.
Schedule of Activities

The clerkship will consist of approximately 50% didactic activities and skill building sessions and 50% clinical/OR time. During this period the student may be assigned to any combination of the following: a SMH full time attending practice, an Ophthalmology Resident-clinic practice, or the operating room. Students will accompany the preceptor through his/her day of practice, surgery, rounds, and conferences. During the week, the student is expected to read independently on specific topics which arise during their work week.

Didactic Activities

Students are required to participate in all didactic lectures. A schedule will be provided on the first day of the course.

Required Reading

All students are required to read "Basic Ophthalmology" by Cynthia Bradford, MD. This book provides a broad overview to Ophthalmology for the medical practitioner.

Student Evaluations

It is expected that the student will pass the final written and practical examinations, complete a one-page paper based on a patient encounter, turn in a patient tracker log, and complete a course evaluation. The student will also be graded on their clinical skills, reasoning, and attendance.
Course Information

Course Director
Mithra Osiris Gonzalez M.D.
Contact Person
Patty DeBurro, 273-3954
Class Year Name
Advanced Ophthalmology Elective
Class Code
OPH601
Elective Tags
Outpatient Service
Block Length
1-4 weeks
Students
4
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Ophthalmology Resident Clinic. 3rd floor, right off the green elevators.
What time should students report?
9:00 am
Who should they report to?
Must Contact Patty DeBurro Prior to Scheduling

Goal

The goal for this course is for the medical student to obtain more advanced skills and knowledge in Ophthalmology. This is provided through one on one instruction with a clinician. All students must have completed the prerequisite course, Ophthalmology 600, prior to enrolling in this course. Students also need approval of the course director. Students will be required to contact the director of the course to make suitable arrangements for their elective at least one month prior to their start date.

Prerequisite - OPH600 Ophthalmology and with approval of the director.

Learning Objectives

The objectives in this course include acquiring more advanced skills for the diagnosis of Ophthalmological conditions, greater Ophthalmic knowledge, and a better understanding of the medical and surgical management of Ophthalmic conditions.

Schedule of Activities

Students will work one-on-one with a clinical provider. They will be expected to attend the clinic, operating room, and conferences attended with the clinician to which they have been assigned. Every effort will be made to match a student with a clinician who works in their area of interest.

Didactic Activities

Students will also be asked to attend the a.m. and p.m resident conferences along with the resident lecture series on Friday afternoons.

Required Reading
Students are expected to read independently throughout the duration of their experience.

**Student Evaluations**

Evaluations will be made based on attendance, knowledge, skills, and effort of the student. In addition, students will be expected to write a one-page paper per week of the elective. This paper should be sparked by a patient encounter which has lead the student to do reading on the particular topic.
**Course Information**

**Course Director**  
Neil E. Herendeen M.D., M.S.

**Contact Person**  
Neil Herendeen 273-4140 neil_herendeen@urmc.rochester.edu

**Class Year Name**  
Pediatric Ambulatory Elective

**Class Code**  
PED602

**Elective Tags**  
Outpatient Service, Primary Care

**Block Length**  
1 - 4 weeks

**Students**  
1

**Prerequisites**  
PED300 Pediatrics Clerkship

An elective experience is sometimes "split" by these weeks. Is it okay to split?  
Yes

**Available to the following medical students:**  
3rd Year, 4th Year, Visiting

Where should students report?  
Monday rotation starts in the Pediatric Practice located on the 6th floor of the ambulatory center (AC6). Take the silver elevators off the main lobby

What time should students report?  
9:00am

Who should they report to?  
Neil Herendeen or Outpatient chief resident

**Goal**

To develop skills and experience in the diagnosis and management of common pediatric illnesses and congenital disorders in the outpatient settings.

**Learning Objectives**

By the end of the rotation the student should be able to:
Feel comfortable in evaluating children and adolescents with acute illnesses and injuries.
Perform the initial assessment of newborn babies and recognize common newborn conditions.
Counsel new parents on the care of their child including the psychosocial adjustment of the family.
Recognize the impact of cultural and environmental factors and incorporate them into individual management plans.
Demonstrate concise and complete oral and written patient evaluations.
Demonstrate an understanding of the biopsychosocial model and its importance in pediatric practice.
Develop problem solving strategies and treatment plans before consulting with the supervising pediatrician.
Discuss appropriate antibiotic choices for the management of otitis media, pneumonia, and urinary tract infections.
Discuss appropriate evaluation of the febrile infant.

**Schedule of Activities**

Students should call 2 weeks before elective to assist in designing their own schedule to meet personal learning objectives. Practice sites include the acute illness clinic, subspecialty clinics and Pediatric Emergency Department at Strong Memorial Hospital. Private office settings can be included if advanced arrangements are
made. Daily schedules typically start at 8:00 AM with morning report for all pediatric students and residents. Afternoon clinics finish at 5:30 PM.

**Didactic Activities**

Students are expected to read about and discuss the learning objectives with their preceptors during the clinical day. Morning report conferences are held each weekday at 8:00AM in the Bradford Library (4-3215) followed by outpatient conference for residents& students at 8:30 - 9:00 AM in AC6)on Tuesday, Thursday, and Friday. Pediatric Grand Rounds are held Wednesday 8:00-9:00 AM in the Whipple Auditorium (September - June).

**Required Reading**

None. BUT there are reference materials in the AC-6 Conference Room and the Bradford Library that are easily accessible for patient centered reading.

**Student Evaluations**

To receive a grade of Pass, students must participate in the conferences and clinical sessions that they have scheduled. Clinical performance will be evaluated by the various preceptors the student works with. A summary evaluation will be completed by the course director.
PED604 Practice Based Experience in Med-Peds Course Information

Contact Person
Enrico Caiola, MD, (585) 654-5432, enrico_caiola@urmc.rochester.edu;
Class Year Name
Practice Based Experience in Med-Peds
Class Code
PED604
Elective Tags
Outpatient Service, Primary Care
Block Length
2 weeks
Students
2
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Culver Medical Group, 913 Culver Road, Rochester, NY 14609
What time should students report?
9 AM
Who should they report to?
Enrico Caiola, MD

Goal
To expose the learner to the day-to-day life of a Med-Peds practitioner in a primary care setting.

Learning Objectives
To experience the outpatient management of common pediatric & internal medicine problems. The secondary objective is exposure to inpatient medicine and pediatrics.

Schedule of Activities
Daily morning rounds with a Med-Peds attending followed by office hours paired with one of seven Med-Peds attendings seeing a mixture of adult and pediatric patients and problems.

Didactic Activities
Two half-hour teaching sessions per day, following the UR Med-Peds ambulatory curriculum.

Required Reading
None required, but Allen Goroll's Primary Care Medicine and Dershewitz's Pediatric Primary Care are strongly suggested and are available in the office, so no need to purchase them.

Student Evaluations
An evaluation will be discussed half way through the rotation and a final evaluation will be written and submitted after it is discussed with the student. All seven attending physicians have equal input into the students evaluations.
Course Information

Course Director
Abigail L.H. Kroening M.D.
Contact Person
Carolyn King, 275-3744 Carolyn_King@urmc.rochester.edu OR Melissa Alliet 275-7383
Melissa_Alliet@urmc.rochester.edu
Class Year Name
Pediatric Developmental Disabilities
Class Code
PED610
Elective Tags
Consultation Service, Multidisciplinary, Outpatient Service, Patient Care
Block Length
2 weeks
Students
1
Prerequisites
PED300 Pediatrics Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
Visiting
Where should students report?
200 East River Road Third Floor
What time should students report?
8:30 a.m.
Who should they report to?
Abigail Kroening MD or Jessica Roesser, MD

Goal

To acquaint students with an interdisciplinary approach to the diagnosis, treatment, and coordination of care for the child, adolescent, or adult with developmental disability. Students will also become familiar with normal/abnormal development, basic management strategies for common pediatric behavior problems, and community services and their coordination.

Learning Objectives

By the end of the rotation the student should be able to:
Perform the medical part of an interdisciplinary diagnostic evaluation for a child with a developmental disability.
Describe the roles of other interdisciplinary team professionals, including psychologist, educator, nurse, social worker, speech pathologist, occupational therapist, physical therapist, audiologist, and nutritionist.
Participate in the process of care coordination for an individual with complex developmental disability.
Describe the necessary screening, diagnostic, and therapeutic tasks involved in appropriate primary care for children with spina bifida, cerebral palsy, autism, Down Syndrome, attention deficit disorder, and learning disabilities.
List differential diagnoses for intellectual disability, autism spectrum disorders, attention deficits, and motor disability in children and youth..
Discuss appropriate use of pharmacologic agents such as muscle relaxants, anticonvulsants, psychostimulants, and other psychopharmacologic agents used in the care of children with developmental disabilities.
Utilize standard developmental screening tools and recognize when further evaluation or developmental intervention is necessary.

Schedule of Activities
Students will participate in all clinical activities of the Division of Neurodevelopmental and Behavioral Pediatrics, including Kirch Center, as well as visiting community agencies such as schools, residences, and other clinics for guided observations and patient screenings/work-ups. Students electing longer rotations will have more opportunities for higher level clinical interaction.

**Didactic Activities**

Weekly Neurodevelopmental and Behavioral Pediatrics Core Lecture Series on research and leadership in the care of children with neurodevelopmental disorders; weekly pediatric discipline conference; computer-aided instruction; individualized teaching; and (for students electing experiences longer than 2 weeks) a brief, informal talk based on reading on a related subject of the student's choice.

**Required Reading**

Handbook of Developmental and Behavioral Pediatrics, 3rd ed, handouts.

**Student Evaluations**

Students will be evaluated based on the quality and completeness of their patient workups (Objectives 1, 4, 5, 6), their ability to participate as members of interdisciplinary teams (Objectives 2, 3), and on their informal talks (Objectives 1-7).
**Course Information**

Course Director  
Katherine Blumoff Greenberg M.D.  
Contact Person  
Nadine Manns, 275-0416 nadine_manns@urmc.rochester.edu  
Class Year Name  
Adolescent Medicine  
Class Code  
PED615  
Elective Tags  
Consultation Service, Inpatient Service, Multidisciplinary, Outpatient Service, Patient Care  
Block Length  
2 weeks  
Students  
1  
Prerequisites  
(ALL) PED300 Pediatrics Clerkship, PSY300 Psychiatry Clerkship  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year, Visiting  
Where should students report?  
8 South Unit  
What time should students report?  
9AM  
Who should they report to?  
Attending on-call via webpaging or calling 275-2964  

**Goal**

To introduce students to the particular interests and issues surrounding adolescents and their unique health care needs.

**Learning Objectives**

By the end of the rotation the student should be able to:

- Discuss the legal rights of minors including consent and confidentiality.
- Develop a strategy for management of adolescents with health problem - specific focus on adjustment, adherence, and engagement of the family.
- Recognize situations in where adolescents benefit from the skills of professionals trained in the care of adolescents.

**Schedule of Activities**

This elective is structured into inpatient and outpatient experiences. Mornings are generally spent at Strong Memorial Hospital, doing patient rounds and consults. The afternoons are spent at different clinical sites at the hospital and in the community. The schedule for clinical assignments will be sent to the students via email the week prior to starting the elective.

**Didactic Activities**
The students are also expected to attend several adolescent medicine didactic sessions that take place over the course of the week, involving a seminar, case presentations, and journal club. Please refer to the schedule.

**Required Reading**

- "Adolescent Health Update: Engaging Adolescents and Building on Their Strengths" by Dr. Kenneth Ginsburg
- New York Promoting and Advancing Teen Health (NYPATH) website - www.nypath.org

Please register for their website and complete the six (6) online Adolescent Reproductive and Sexual Health E-Learning Course modules from Physicians for Reproductive Health.

While on rotation, we will provide access to a set of rotation-specific optional readings in a web-based format.

**Student Evaluations**

To receive a grade of Pass, students must attend clinical sessions, demonstrate enthusiasm, and be open to feedback and learning. The student should demonstrate increasing communication skills and knowledge of adolescent health. There is also a required student presentation at the end of the rotation. Details regarding the presentation will be sent along with other materials a week in advance.
Course Information

Course Director
Nishaben D. Patel M.D.
Contact Person
Nishaben_Patel@urmc.rochester.edu 275-2647, cell 551-655-3715 Marcy Inglese 275-3863
Class Year Name
Pediatric Gastroenterology/Nutrition
Class Code
PED620
Elective Tags
Patient Care
Block Length
2 or 4 weeks
Students
1
Prerequisites
PED300 Pediatrics Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Pediatric GI/Nutrition Division 4-6112A or Division Chief office
What time should students report?
9:00 AM
Who should they report to?
Dr. Nishaben Patel or Marcy Inglese

Goal
To become more familiar with the practice of Pediatric Gastroenterology, Hepatology and Nutrition, an essential pediatric subspecialty

Learning Objectives

By the end of the rotation the student should be able to:
1.) Be able to identify patients for whom consultation with a pediatric gastroenterologist is indicated.
2) Have had experience of seeing patients in the outpatient or inpatient setting with the following diagnoses:
Constipation/encopresis, gastroesophageal reflux, chronic inflammatory bowel disease, chronic abdominal pain.
3) Have read about a few common topics in Pediatric GI/Nutrition

Schedule of Activities

Students will follow a few inpatients, and assist in the outpatient clinics. They will observe procedures such as upper endoscopy and colonoscopy. The student will be encouraged to give a talk on a Pediatric GI topic.

Didactic Activities

Students will attend Pediatric Morning report and Pediatric Grand Rounds. They are also expected to attend the weekly Pediatric Nutrition Support Service Rounds, weekly adult GI Clinical Conference, the biweekly Pediatric GI Pathology Conference, and the biweekly Pediatric GI/Nutrition Fellows conference

Required Reading
Suggested Reading: The URL below will take you to Wylie's text of Pediatric Gastroenterology- the chapters suggested are 12: Constipation and Encopresis, 14: Gastrointestinal Bleeding, 22: Gastroesophageal Reflux, 35: Celiac Disease, 38: Allergic GI Disorders, 44 and 45: Inflammatory Bowel Disease, 55: Hirschsprung's Disease, 69: Biliary Atresia and 85: Nutrition.

Further reading is encouraged regarding specific patient topics, as well as the major texts: Pediatric Gastrointestinal Diseases Volumes 1 & 2, Allan Walker, and Pediatric Liver Disease by Fred Suchy.


**Student Evaluations**

The student will be evaluated on interest, enthusiasm, and participation in learning the skills important in the diagnosis and management of pediatric GI diseases. The student should show ability to perform literature searches on interesting patient topics.
Course Information

Course Director
Jeffrey Scott Rubenstein M.D., M.B.A.
Contact Person
SHERRY BENNETT - 585-275-6214 sherry_bennett@urmc.rochester.edu
Class Year Name
Pediatric Intensive Care
Class Code
PED625
Elective Tags
Inpatient Service, Patient Care
Block Length
4 weeks
Students
1
Prerequisites
PED300 Pediatrics Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Pediatric ICU (4-2800)
What time should students report?
7:30 AM
Who should they report to?
PICU Attending on service (Phone 273-2303)

Goal
To acquaint the student with the approach to a critically ill infant, child, or adolescent and to understand the rationale for the initial treatment of critically ill pediatric patients with common disease processes.

Learning Objectives

By the end of the rotation the student should be able to:
Identify pediatric patients with shock when they present. Discuss the common causes of shock in the pediatric patient, their pathophysiology, and the initial treatments for children in shock.
?Identify pediatric patients with respiratory failure when they present. Discuss the common causes of respiratory failure in the pediatric patient, their pathophysiology, and the initial treatments for children with respiratory failure.
?Identify neurologic disease that requires intensive care therapies in pediatric patients. Discuss the common neurologic crises that occur in the pediatric patient, their pathophysiology, and their initial treatments.
?Understand the principles of positive pressure mechanical ventilation in pediatric patients. Be able to differentiate between pressure and volume modes of mechanical ventilation.
?Be able to analyze blood gas results; understand acid-base disorders.
?Describe the effects of critical pediatric illness on parents and families.

Schedule of Activities

Students will function as members of the care team in the PICU. They will be responsible for the direct care (under close supervision) of one or more patients. They will round with the care team (at 7:30 a.m. on weekdays) and provide care during the remainder of the day. They will attend the daily teaching conference and afternoon sign-out rounds. Each student will present at this conference once during their rotation. This
presentation will make reference to a specific interesting patient. Support and guidance about this presentation is available from members of the PICU faculty. Every third or fourth night call is optional, but is strongly encouraged.

**Required Reading**

Resource reading material is available in the PICU. Readings will be patient-focused, and will concentrate on making clear evidenced-based approaches to the care of patients. The two major texts in Pediatric Critical Care are: Pediatric Critical Care (Fuhrman and Zimmerman); Textbook of Pediatric Intensive Care (Rogers). These books are available in the intensive care unit.

**Student Evaluations**

To receive a grade of pass, students must participate in the PICU program and demonstrate a beginning understanding of pediatric critical illness.
Course Information

Course Director
Karen Zuidema Voter M.D.
Contact Person
Debbie Longbine@urmc.rochester.edu
Class Year Name
Pediatric Pulmonology
Class Code
PED628
Elective Tags
Patient Care
Block Length
2 or 4 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Rm : 4-3236
What time should students report?
08:30 am
Who should they report to?
Debbie Longbine

Goal

To diagnose and provide care for children with difficult asthma, cystic fibrosis, bronchopulmonary dysplasia and technology dependence.

Learning Objectives

By the end of the rotation the student should be able to:
Perform relevant history and physical examinations for pulmonary diagnoses, interpret pediatric pulmonary function tests, and appreciate indications for bronchoscopy in children. The student should be able to develop a differential diagnoses and preliminary treatment plan for children with pulmonary diagnoses.

Schedule of Activities

Attend Pediatric Pulmonary Clinics in ACF-1 three half-days per week (1:00-5:00 p.m. on Tuesdays. 8:30-12:00 a.m. on Monday, and Thursdays ) and one half day per week at the Mary Parkes Asthma Center (8:30 - 12 on Fridays), make rounds daily on hospitalized patients and consults on hospitalized children with respiratory disorders.

Didactic Activities

Attend Pediatric Morning Report (daily, 8:00-8:30 a.m.), and Pediatric Pulmonary Interdisciplinary Rounds (Mondays, 1:00-2:00 p.m., Tuesdays, 12:00-1:00 pm, and Thursdays 1:00-2:00), attend Pulmonary Teaching Conference on Wednesdays 1:00 - 2:00 pm and attend Radiology rounds Wednesdays 11:00 - 11:30.

Required Reading

PED628 Pediatric Pulmonology
A core reading notebook located in the Pediatric Pulmonary Conference Room has articles on key and basic topics in pediatric pulmonology. This info is also stored on S: Drive

**Student Evaluations**

Evaluations will be completed by the attending physician in clinic and on the inpatient service based on the student's ability to evaluate and follow patients with lung disease.
Course Information

Course Director
Megan Johanna Rashid M.D.
Contact Person
Erik Abell Ph: 585-273-2977 Email: Erik_Abell@urmc.rochester.edu Venita Byrd Ph 585-275-9784
Class Year Name
Pediatric Nephrology
Class Code
PED630
Elective Tags
Consultation Service, Inpatient Service, Outpatient Service, Patient Care
Block Length
2-4 weeks
Students
1
Prerequisites
PED300 Pediatrics Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
URMC Room 4-8116
What time should students report?
08:30
Who should they report to?
Erik Abell

Goal

To better understand the diagnosis and management of acute and chronic kidney disease, hypertension, and fluid/electrolyte problems in children.
Be exposed to children with kidney transplants, those on hemodialysis and peritoneal dialysis, and those with acute kidney injury.
Become familiar with renal diagnostic tests including urinalysis, renal electrolyte handling, kidney ultrasound, kidney biopsy, and measurement/estimation of glomerular filtration rate.

Learning Objectives

By the end of the rotation the student should be able to:
- Identify patients for whom consultation with a pediatric nephrologist is indicated.
- Attempt to focus on specific aspects of diagnosis and management.
- Become familiar with basic aspects of fluid and electrolyte disturbances, as they relate to renal and nonrenal patients.
- Develop familiarity in analyzing urine under the microscope.
- Become familiar with normality in growing children as it pertains to blood pressure, protein excretion, and growth and development.
- Become familiar with the most common types of referrals to a pediatric nephrology practice, including the diagnosis of persistent microscopic hematuria and proteinuria.
- Develop a familiarity in reviewing renal ultrasounds.
- Become familiar with end-stage renal patients, particularly those who have been transplanted or are on peritoneal/hemodialysis.
- Become acquainted with non-dialytic modes of supporting renal insufficient children during growth.
- Better understand the relevance of adequate renal function in the process of growth and development in
children.

**Schedule of Activities**

Students are assigned to SMH under the direction of the faculty member and/or fellow on service from approximately 8 a.m. to 5 p.m. on weekdays. The student will participate in rounding on inpatients, compiling a summary of the results in the past 24 hours with recommendations for subsequent diagnosis and management in consultation with the faculty member. On one or two mornings per week, the student will participate in outpatient clinic, seeing patients, making his/her own formulations prior to reviewing and seeing the patient with an attending nephrologist. During outpatient clinic the student will have an opportunity to review the urinalysis on each patient that he/she has seen with the help of the faculty member.

**Didactic Activities**

The students are expected to attend major divisional educational conferences, including weekly clinical conferences and journal clubs as well as monthly scheduled conferences when they occur, including Pediatric Renal/GU, research, and pathology conferences.

**Required Reading**

A syllabus of major important articles to the pediatric nephrology literature is available on loan from the divisional secretary in 4-8116, ext. 5-9784.

**Student Evaluations**

Students will receive a satisfactory evaluation if they keep a log noting that they have seen each of the inpatients and at least three outpatients per week and that they have indicated that they have learned about each of the specific objectives listed above, and, finally, that they have read at least ten articles from the syllabus provided by the division.
**Course Information**

<table>
<thead>
<tr>
<th>Contact Person</th>
<th>Chin-To Fong, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Year Name</td>
<td>Pediatric Genetics</td>
</tr>
<tr>
<td>Class Code</td>
<td>PED635</td>
</tr>
<tr>
<td>Elective Tags</td>
<td>Consultation Service, Inpatient Service, Outpatient Service</td>
</tr>
<tr>
<td>Block Length</td>
<td>Minimum 2 weeks, 4 weeks preferred</td>
</tr>
<tr>
<td>Students</td>
<td>2</td>
</tr>
</tbody>
</table>

An elective experience is sometimes "split" by these weeks. Is it okay to split?

Yes

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
Please check with Dr. Fong by email the week prior to the elective

What time should students report?
Please check with Dr. Fong by email the week prior to the elective

Who should they report to?
Please check with Dr. Fong by email the week prior to the elective

**Goal**

To understand the applications of genetic principles in medical practice.
To gain familiarity with common genetic conditions. To experience all aspects of clinical genetics including genetic counseling, prenatal genetics, inborn errors of metabolism and dysmorphology. Although listed as a pediatric elective, this elective will offer experience in genetic practice in a wide range of age groups and specialties.

**Learning Objectives**

By the end of the rotation the student should be able to:
Obtain an accurate three generation pedigree.
Obtain an appropriate genetic history.
Observe and understand the genetic physical examination.
Understand the role of genetic testing in diagnosis.
Observe genetic counseling in several situations including prenatal diagnosis and clinical dysmorphology.
Assist with inpatient consultations.
Demonstrate use of the genetic literature.
Understand the concepts of alpha-feto-protein testing, chromosome testing, DNA testing and other genetic testing.
Develop an area of interest and present a 15-30 minute presentation on this topic or develop a case report for publication.

**Schedule of Activities**

Pediatric General Genetics Clinic Monday afternoon, Wednesday morning and afternoon

Inherited Metabolic Disorders Clinic Monday afternoons or Tuesday mornings
Cancer Genetics Clinic: Thursday and Friday afternoons

Pediatric Cardiogenetics Clinic: first Wednesday afternoon of each month

Medical Genetic Clinic: Thursday afternoon

Craniofacial Team Clinic: every other Friday

Various meetings: Thursday mornings, and at other times subject to change

**Didactic Activities**

Ad hoc lectures

**Required Reading**

A syllabus will be provided.

**Student Evaluations**

The student should participate in patient care and discussions to demonstrate a growing expertise in genetics, be available for consultations, research patient problems encountered during the rotation, and present a topic of interest in Genetic rounds.
Course Information

Course Director
Cecilia C. Meagher M.D.
Contact Person
Susan Aldridge, susan_aldrige@urmc.rochester.edu
Children's Heart Center at URMC Clinic 275-6108

Class Year Name
Pediatric Cardiology
Class Code
PED643
Elective Tags
Outpatient Service
Block Length
2 weeks
Students
1

Prerequisites
PED300 Pediatrics Clerkship

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
If Monday: conference room 4-5210 at 8AM
Otherwise: Childrens Heart Center, rm 1-0349 (Pediatric Cardiology clinic) Ambulatory building off main hallway of SMH Lobby.

What time should students report?
8:00 AM

Who should they report to?
Cecilia Meagher, MD

Goal

To understand how to distinguish normal from abnormal cardiovascular signs and symptoms, understand how to recognize, manage, and, if necessary, refer cardiovascular conditions in children, understand key principles related to the use of cardiovascular drugs, and understand the role of prevention of cardiovascular disease in pediatric patients.

Learning Objectives

By the end of the rotation the student should be able to:
Recognize normal age-related changes in heart rate and blood pressure.

1. Describe the mechanisms of production of heart sounds and murmurs and recognize classic auscultatory findings of innocent and pathologic murmurs.

2. Differentiate between physiologic and pathologic variations in cardiac rhythm.

3. Describe the normal perinatal circulation and its influence on the development of signs and symptoms of heart disease in the neonate.

4. Describe the use and indications for electrocardiography, echocardiography, exercise testing, ambulatory electrocardiographic monitoring and cardiac catheterization.

5. Identify and describe the management of functional heart murmurs, musculoskeletal chest pain, and mild labile hypertension.
6. Describe the initial evaluation and management of the child presenting with serious signs and symptoms related to the cardiovascular system such as cyanosis, palpitations and/or arrhythmias, congestive heart failure, syncope, abnormal heart sounds, and pathologic murmurs.

7. Describe the physical findings, pathophysiology, genetics, usual treatments, and prognosis for common cardiovascular conditions including ventricular septal defect, atrial septal defect, tetralogy of Fallot, patent ductus arteriosus, coarctation of the aorta, aortic and pulmonary stenosis, mitral valve prolapse, supraventricular tachycardia, Kawasaki disease, acute rheumatic fever, bacterial endocarditis, and cardiomyopathy.

8. Recognize the risk factors and identify appropriate screening and prevention strategies for atherosclerotic Heart disease.

**Schedule of Activities**

The student will participate in all activities and conferences of the division including time in the outpatient clinic, inpatient consultations, observation/participation in performing electrocardiograms, exercise testing, echocardiography. Opportunity will be provided to observe in the cardiac catheterization lab and operating room.

**Didactic Activities**

Students are expected to read about and discuss the learning objectives with their mentor throughout the rotation. In addition, students are expected to attend all the daily Pediatric Cardiology Conferences, all which are held in the morning: Monday Changeover, Tuesday Echo conference, Wednesday Fellows conference, Thursday, Cardiovascular Care Conference and Friday, Surgery conference.

**Required Reading**


**Student Evaluations**

To receive a grade of pass, students must have demonstrated active participation in the clinical activities of the division, and in consultation with the pediatric cardiology attending on service, document that the learning objectives have been covered and met.
Course Information

Course Director
Francis Gigliotti M.D.

Contact Person
Nadine Manns Nadine_Manns@URMC.Rochester.edu

Class Year Name
Pediatric Infectious Diseases

Class Code
PED645

Elective Tags
Consultation Service, Patient Care

Block Length
2-4 weeks

Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
Medical Center, Room 4-6220

What time should students report?
9:00 am

Who should they report to?
Peds ID Monday at 9 a.m. Hoekelman Rm 4-8144. Please see attending physician(s)

Goal

To become familiar with and gain an initial understanding of the practice of Pediatric Infectious Diseases

Learning Objectives

1. Explain the symptoms and physical findings that suggest the presence of an infectious disease and perform a PE appropriate for an ID consult.

2. Take an exposure history that provides clues to a specific diagnosis (ill contacts, travel, pets or other animal exposures, occupation, insect bites and diet).

3. Identify standardized guidelines for diagnosis and treatment of conditions common to this subspecialty area and adapt them to the individual needs of specific patients (i.e. catheter associ infect guidelines)

4. Relate the importance of proper specimen collection and its effect on results, explain the limitations of those tests (sensitivity, specificity, predictive values, cost).

Schedule of Activities

1) Daily work rounds and teaching rounds with the Attending and Peds ID team.
2) Conference participation including Pediatric Morning Report (twice per week), and weekly Peds ID clinical conference, and joint Medicine and Pediatric ID clinical conference.

Didactic Activities

As above, Peds ID clinical conference and joint Medicine and Pediatric ID clinical conference.

Required Reading

PED645 Pediatric Infectious Diseases
Selected papers on important and/or frequent clinical problems encountered in Peds ID are available on the Pediatric Shared drive for the residents and medical students to read. In addition, daily reading based upon questions related to ongoing patient care is expected.

**Student Evaluations**

Students will be evaluated by the Pediatric ID attending using the standard format provided by the School of Medicine. In addition, verbal feedback will be provided on an on-going basis by the residents, fellow, and attending on the service as applicable.
**Course Information**

Course Director  
Jessica C. Shand M.D., M.H.S.  
Contact Person  
Dolores DiCesare dolores_dicesare@urmc.rochester.edu phone 275-0515  
Class Year Name  
Pediatric Hematology/Oncology  
Class Code  
PED647  
Elective Tags  
Patient Care  
Block Length  
2 weeks  
Students  
1  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year  
Where should students report?  
Ambulatory Care Facility (AC-6) on the 6th floor  
What time should students report?  
8:30 AM  
Who should they report to?  
The Pediatric Hematology/Oncology clinic attending physician

**Goal**

To provide an intensive experience in clinical Pediatric Hematology/Oncology in which students will acquire an understanding of the diagnosis, pathophysiology, and management of the common hematologic and oncologic diseases of childhood with an appreciation for the effect of these serious diseases on the patients and their families.

**Learning Objectives**

By the end of the rotation the student should be able to:  
Explain the physiology of normal blood formation and destruction.  
Accurately diagnose common causes of cytopenias (i.e., neutropenia, anemia, thrombocytopenia) in children.  
Given history and physical exam, efficiently utilize laboratory tests in the diagnostic work-up and be able to evaluate a blood smear.  
Describe the pathophysiologic mechanisms of the anemia and the different types of crises in sickle cell disease.  
Describe in a step-wise manner, the work-up for a prolonged PTT, a prolonged PT, and a prolonged bleeding time. Accurately apply the various bleeding tests in the light of the patient history and physical findings.  
Describe childhood ALL in terms of its incidence, peak age range, common signs and symptoms and general treatment concepts. Explain how prognostic factors have been used to define tailored therapy for ALL.  
Be familiar with common forms of cancer in children in terms of peak age, clinical presentation, staging and common sites of metastatic spread. These forms of cancer include Wilms tumor, Non-Hodgkin and Hodgkin Lymphoma, Neuroblastoma, Osteogenic Sarcoma, Ewings sarcoma family of tumors, Rhabdomyosarcoma, Medulloblastoma and other brain tumors  
Describe a blast cell and be able to differentiate between a blast cell and reactive lymphocyte, and be familiar with the morphology of hematopoietic cells.  
Using clinical and laboratory data, differentiate between ALL and ITP, acute mononucleosis and iron deficiency anemia.
**Schedule of Activities**

Students work on the outpatient (AC-6) and inpatient (4th floor SMH) service of the Pediatric Hematology/Oncology. Clinic is currently scheduled Mon, Wed and Thurs 8:30-5:00, Tues and Fri 8:30-1:00. Students perform initial consultations (history, physical, collect lab data, followed by presentation to attending, including impression and plan. Also may be responsible for dictating patient care note,) and follow-up evaluations in clinic, with an attending preceptor. They may also attend inpatient rounds each morning, see inpatient consults as appropriate, and may see limited inpatients with the attending. The elective is primarily outpatient based. Students who desire a more intensive inpatient experience may apply to do a externship on the Pediatric Heme/Onc service. Emphasis is on active participation in all aspects of patient care.

**Didactic Activities**

Inpatient housestaff rounds (Tue-Fri 7:30-8:30 am), Morning report (Tue., Th., Fri.  8:30-9:00 a.m.); Attending Rounds (scheduled with each housestaff rotation); Academic conference (variable Tues. 3:00-4:00 p.m.); Sign-in Conference (Mon. 8:00-9:00 a.m.). Patient conference (Fri., 3:30-5:30 p.m.)

**Required Reading**

Textbooks can be borrowed from the Peds Hem/Onc Library. Principles and Practice of Pediatric Oncology 2nd ed., by P. Pizzo and D. Poplack (also on line); Hematology of Infants and Children, 5th ed. By D. Nathan and F. Oski.

**Student Evaluations**

To receive a grade of pass, students must receive a satisfactory clinical evaluation from their preceptors during the elective. It is preferred that student's also do a short presentation at one of the division clinical conferences or housestaff teaching sessions.
Course Information

Course Director
David R. Weber M.D., M.S.
Contact Person
Colleen Gavin 585-458-3040, Ext. 3472, cgavin@diabetes.org
Class Year Name
Diabetes Camp/Aspire
Class Code
PED648
Elective Tags
Outpatient Service
Block Length
1 or 2 weeks
Students
10
Prerequisites
PED300 Pediatrics Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Camp is held at the Rotary Sunshine Camp; Rush, NY. Information will be sent about training, and when to report.
What time should students report?
Information will be provided
Who should they report to?
Camp medical coordinator

Goal

Elective Goals:

Camp Dates:
Session 1: July 1-6
Session 2: July 8-13

Students will reside on campus during the week of camp and must commit to arrive at 8:00 AM on the first day of camp to complete training

A maximum of 10 students per week will be accepted on a first come, first serve basis. Exposure to Pediatric and adolescent diabetes management in a camp setting. Involvement in glucose and calorie intake and general diabetes management in children and adolescents. Hours are daily 7am to 9:30PM on most days with one or two overnight "calls" per week. Meals provided. Every evening 5-8 PM, rounding and review of glucose records and insulin orders on all campers. Didactic sessions with endocrinologist and literature review will be supplied during the elective

After signing up for the credits and completing the online application, interested students should email Dr. Weber with date preference

Learning Objectives

diabetes management in children and adolescents
Schedule of Activities

Details will be provided.

Didactic Activities

Early evening, 90 minutes: discussion and glucose and insulin review.

Required Reading

will be provided at camp

Student Evaluations

written, if desired.
Course Information

Contact Person
Nadine Manns Nadine_Manns@urmc.rochester.edu (585) 276-4228
Class Year Name
Pediatric Endocrinology
Class Code
PED649
Elective Tags
Consultation Service, Inpatient Service, Outpatient Service, Patient Care
Block Length
2 weeks
Students
1
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
room 4-6215
What time should students report?
9 am
Who should they report to?
Dr. Nicholas Jospe

Goal

To expose the student to a wide variety of pediatric endocrine disorders.

Learning Objectives

Normal growth patterns for infants, children and adolescents. The student will become familiar with the differential diagnosis of disturbances of growth. The student will become familiar with hormones that influence growth rates, such as growth hormone, thyroid hormone, glucocorticoid, and hormone sex steroids. Finally, the student will become familiar with modes of administration, indications and potential side effects of growth promoting therapy.
The student will become familiar with the physiology of the posterior pituitary, with specific attention to the role of vasopressin. The differential diagnosis of diabetes insipidus will be discussed, as well as the modes of therapy.
Role and regulation of thyroid hormone. Thyroid function tests will be discussed, along with tests for the integrity of the hypothalamic pituitary thyroid axis. The differential diagnosis of hypothyroidism and hyperthyroidism and the various forms of therapy will be discussed. The student will be taught how to recognize signs and symptoms of thyroid disease. Didactic sessions will be devoted to exposing the student to the broad range of phenotypic findings in thyroid disease.
Diabetes. Etiology, genetics, and pathogenesis of Type I and Type 2 diabetes will be discussed. The diagnosis and treatment of diabetic ketoacidosis will also be discussed. The inpatient and outpatient management of diabetes will be carefully reviewed. The long-term outcome of diabetes in children as well as future directions will be reviewed.
Disorders of the adrenal cortex. The pathophysiology of disorders of adrenal steroidogenesis resulting in congenital adrenal hyperplasia will be discussed. Biochemical and clinical features of each of the disorders will be discussed. The signs and symptoms, laboratory tests and treatment for Cushing syndrome and Addison disease will be reviewed.
Disorders of pubertal development. Normal variations in developmental patterns and abnormal pubertal development (early or delayed) will be discussed. Tanner staging will be carefully reviewed. The effect of excess or deficient adrenal or gonadal steroids will be reviewed.
Disorders of sexual development in the newborn infant. Normal sexual differentiation will be reviewed, followed by a discussion of gonadal or chromosomal disorders.
Parathyroid and vitamin D-related disorders. Parathyroid physiology will be discussed and clinical entities including hypoparathyroidism and hypocalcemia or hyperparathyroidism will be discussed, along with their modes of therapy.

**Schedule of Activities**

Students will participate in all inpatient and outpatient pediatric endocrine activities. The students will participate in outpatient endocrine clinics on two half-days per week and pediatric diabetes clinics on one full day per week, as well as journal clubs and clinical conferences. The student will act as the primary source for all consultative and inpatient clinical work.

**Didactic Activities**

Students are expected to read about and discuss the learning objectives with their preceptor during the day.

**Required Reading**

Selected chapters in Clinical Pediatric Endocrinology, 2nd Ed., Editor: Solomon A. Kaplan and additional reading material is supplied by the preceptors.

**Student Evaluations**

The preceptor writes evaluation of the student. It is based on an assessment of fund of knowledge, acquisition of new knowledge, and improvement in reasoning ability and over.
PED650 Pediatric Neonatology

Course Information

Course Director
Robert John Swantz M.D.
Contact Person
Dr. Robert Swantz, 275-2972, robert_swantz@urmc.rochester.edu
Class Year Name
Pediatric Neonatology
Class Code
PED650
Elective Tags
Inpatient Service
Block Length
2
Students
1
Prerequisites
(ALL) OBG300 Obstetrics and Gynecology Clerkship , PED300 Pediatrics Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Neonatal ICU (NICU), at Golisano Children's Hospital - 3rd floor
What time should students report?
7:15am
Who should they report to?
Neonatology Fellow

Goal

To understand how to resuscitate and stabilize a critically ill neonate, to appreciate the pathophysiologic basis for common disorders of the newborn, and to understand how to evaluate and manage common diseases of the newborn.

Learning Objectives

By the end of the rotation the student should be able to:

- Describe the physiologic adaptation of the newborn to extraterine life and the steps in neonatal resuscitation and stabilization.
- Demonstrate proper and effective delivery room resuscitation techniques for newborns.
- Perform an appropriate assessment (history, physical examination and initial diagnostic studies) and formulate a differential diagnosis for the following common signs and symptoms: prematurity, growth failure, respiratory distress, cyanosis, heart murmur, apnea/bradycardia, abdominal distension, hepatosplenomegaly, dysmorphic features, hypoglycemia, jaundice, anemia, and thrombocytopenia.
- Describe the pathophysiologic basis of and key principles of management for the following common conditions: respiratory distress syndrome, transient tachypnea, pneumonia, aspiration, bronchopulmonary dysplasia, congenital heart disease, infant of diabetic mother, hyperbilirubinemia, neonatal sepsis, necrotizing enterocolitis, apnea of prematurity.
- Explain the indications for ordering, and interpret the results of the following laboratory and radiology tests: CBC/differential, hematocrit, blood type, Coomb's, serum electrolytes, fractionated bilirubin, blood gas, EKG, urinalysis, bacterial/viral cultures of blood/CSF/urine, CSF cell count, serologic tests,
neonatal drug screening, NYS newborn screen, chest/abdomen radiographs, and head ultrasound.

- Discuss the indications for, and appreciate the techniques in performing the following procedures: physiologic monitoring, endotracheal intubation, mechanical ventilation, venipuncture, arterial puncture, umbilical catheterization, urethral catheterization, lumbar puncture, phototherapy, pulse oximetry.
- Communicate and work effectively with members of the NICU patient care team, and with parents and families of critically ill neonates.

**Schedule of Activities**

The student is assigned to the GCH Neonatal Intensive Care Unit and works with the housestaff team. The student will function as an acting intern, assuming primary responsibility for his/her patients under the supervision of the housestaff, neonatology fellows, and attending neonatologist. The student will work M-F, 6:00am-6:00pm.

**Didactic Activities**

Students will participate in the daily educational activities for the pediatric housestaff in the NICU, including morning report, attending rounds, bedside work rounds, radiology conference, and sign-out rounds. Additionally, the student will attend the weekly perinatal conference, and health team rounds.

**Required Reading**

A variety of instructional materials are available: "NICU Survival Guide" and numerous neonatology textbooks electronically through Miner Library. In addition the URMC Intranet NICU Website has direct links to Housestaff Guidelines and orientation information.

**Student Evaluations**

The student will review their experience with the attending neonatologists. To receive a grade of satisfactory, the student must be judged by them to have appropriately achieved the learning objectives.
Course Information

Course Director
Olle Jane Z. Sahler M.D.

Contact Person
Dr. O. J. Sahler, Pediatrics, OJ_Sahler@urmc.rochester.edu 275-3935

Class Name
Integrative Medicine

Class Code
PED660

Elective Tags
Patient Care

Block Length
2 weeks

Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year

Where should students report?
TBD

What time should students report?
8:00 am

Who should they report to?
O.J.Sahler

Goal

The elective is held primarily at the offices of two clinical faculty members, Dr. Julia Stein, Pediatrics in Webster, jstein01@rochester.rr.com and Dr. Mary Coan, Family Medicine in Clifton Springs, tthomps5@rochester.rr.com

Opportunities to observe biofeedback (Dr. Sahler) and music therapy (Rosie Obi, MT-BC, LCAT) are available at Golisano Children’s Hospital.

Before the elective, participants develop an individualized schedule of activities based on particular personal interests and the availability of the complementary medicine practitioners associated with the elective.

Observations and discussions are supplemented by a rich listing of current and accurate resources that can be accessed online or copied from articles in print.

Learning Objectives

A. to familiarize the trainee with the concept of Integrative Medicine including how and when to recommend various complementary modalities that can be used to develop a comprehensive health care plan for the patient including

1. Definitions of Integrative Medicine and complementary modalities
2. Educational opportunities (fellowships, conferences, courses)
3. Practical approaches to building an Integrative Care team (using local resources, finding credible practitioners, evaluating experience and expertise, analyzing risk/benefit and cost effectiveness)
4. Accessing accurate and reliable information from organizations, databases, web resources
5. Introduction to whole systems (e.g., TCM, Ayurveda) and cultural healing traditions
6. Diets, herbs, supplements: evaluating safety, efficacy, standardization, drug interactions
7. Mind-body therapies as a daily practice, as healing modalities
8. Environmental health: eco-literacy, advocacy, resources, patient education

B. to familiarize the trainee with selected topics related to the structure, development, and limitations of standard conventional medical care including

1. The limitations of standard conventional medical care (e.g., ncbi.nlm.nih.gov/22215160)
2. The use/misuse/no-use of evidence in determining the efficacy of standard conventional medical practices
3. Broadening the approach to the patient as a multi-system whole, where the systems are not independent (i.e., the biopsychosocial model) and responses to treatment are multifactorial
4. The variability in reported laboratory “normal” values between and within labs, as well as the fact that “normal” may not reflect a value that is indicative of optimal health
5. How the development, manufacture, testing, and distribution of pharmaceuticals influence medical practice and affect the cost of health care

Schedule of Activities

The elective is held primarily at the offices of two clinical faculty members, Dr. Julia Stein, Pediatrics in Webster, jstein01@rochester.rr.com and Dr. Mary Coan, Family Medicine in Clifton Springs, tthomps5@rochester.rr.com

Didactic Activities

Didactic sessions will focus on:
* Epidemiology of CAM use among adults and children;
* History of the development of the National Center for CAM (NCCAM);
* Overview of the NIH Model of CAM classification;
* Overview of CAM therapies;
* History of the development and evolution of Western Medicine;
* Evidence-based approach to CAM including hands-on work with relevant databases and resources on the Internet and within the community.

Required Reading

Selected readings from Novey, DW. Clinician's Complete Reference to Complementary & Alternative Medicine. Mosby: St. Louis; 2000.

Hart J. CAM and medical education. Altern Compl Therap 15:288-291;2009
Yamell E, Abascal K. Drugs that interfere with herbs. Altern Compl Therap 15:299-301;2009

www.cpmcnet.columbia.edu/dept/rosenthal/MDCourses.html
Student Evaluations

To receive a grade of pass, students must attend all scheduled activities, contribute to discussions, and prepare a critique of the experience at each clinical site.
PED661 Community Health & Advocacy Elective (CARE)

Course Information

Contact Person
Rosa Lloyd x3-3737 rosa_lloyd@urmc.rochester.edu
Class Year Name
Community Health & Advocacy Elective (CARE)
Class Code
PED661
Elective Tags
Multidisciplinary
Block Length
2 weeks
Students
2
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year
Where should students report?
Rosa Lloyd x3-3737 rosa_lloyd@urmc.rochester.edu
What time should students report?
TBD based on individual student experience
Who should they report to?
Rosa Lloyd

Goal

- To enhance knowledge of community health
- To practice and learn new skills in community health leadership
- To design a community health project in collaboration with community-based partners
- To become lifelong leaders committed to improving the health of all children and families

Learning Objectives

By the end of the rotation, the student(s) will have enhanced knowledge, attitudes, skills & habits in the areas listed below

- Enhanced knowledge of community health
- Practice and learn new skills in community health leadership
- Design a community health project in collaboration with community-based partners
- Become lifelong leaders committed to improving the health of all children and families

Schedule of Activities

Please note that students can only elect to participate in our annual 2-week Community Health & Advocacy Resident Education (CARE) block that will be held July 23rd - August 3, 2018. It is necessary to obtain prior approval from Dr. Aligne by contacting him at Andrew_Aligne@urmc.rochester.edu

If you are approved and still interested, please contact Rosa_lloyd@URMC.Rochester.edu at your earliest convenience.
Didactic Activities

Series of lectures/workshops will/can include:

- Population Perspectives on Health and Disease
- Evidence-Based Public Health
- Moving from the Clinic to the Community
- Working with CBOs (Community-based organizations)
- Mini-Proposal Writing
- Going Upstream/Project Planning
- Mind-Mapping/Brainstorming
- Grant-writing
- Public Speaking/One-Minute Talks
- How to Speak to the Media
- Behavior Change
- Leadership/Change the World
- Teamwork
- Advocacy: Letter Writing, etc.
- Evaluation of Programs
- Global Health

Required Reading

*The CARE Track Handbook: Leadership in Community Pediatrics (provided)* Additional articles and books available, but not required for participation.

Student Evaluations

Will formulate an evaluation to be set-up on the E-value system
**Course Information**

Course Director  
Marc Sean Lavender M.D.  
Contact Person  
Kelly McDermott Kelly_mcdermott@urmc.rochester.edu x3-5942 (Kelly) Rosa Lloyd  
Rosa_Lloyd@urmc.rochester.edu x3-3737(Rosa)

Class Year Name  
Medical Student Links with the Community

Class Code  
PED662  
Elective Tags  
Multidisciplinary,Teaching  
Block Length  
2 wks  
Students  
2  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?  
Hoekelman Center room: 4-5215

What time should students report?  
9 a.m.  
Who should they report to?  
Rosa Lloyd or Kelly McDermott

**Goal**

The goal of this rotation is to inspire and enable medical students to participate in community-based partnerships, evidenced-based programs and advocacy to improve the health of children, adults, and families.

**Students must contact Rosa Lloyd to be approved for the dates requested. Given the complexities of creating course schedules, students are expected to be committed once assigned to the elective to avoid last-minute drops.**

As health care providers, we recognize that our common responsibility is to help maintain the health of all children and their families. Our challenges include poverty, violence, social isolation, and lack of healthy environments in which to play, to name a few. We believe that by connecting children and families to available community resources, our ultimate goal may be realized - that all children achieve their fullest human potential.

**Learning Objectives**

At the conclusion of this rotation, you should:

- Have a better sense of the community-based resources available to patients and families living in the City of Rochester & Monroe County.
- Feel competent in your ability to refer your patients and their families to community-based resources.
- Feel competent in your ability to advocate on behalf of patients and families in your practice.
Schedule of Activities

During their 2 week rotation, each participant will:

- visit between 10 and 15 community-based organizations/programs
- participate in didactic activities
- complete the required assignments
This rotation requires the student to provide his/her own transportation.

Didactic Activities

Students will participate in the following didactic experiences while on rotation:

- Orientation session
- Wrap-up/closing session

Required Reading

Please go to [www.plccare.org](http://www.plccare.org) and click on "Intern Community Rotation" to access all course materials including readings, assignments, and community resources.

Student Evaluations

- Students are expected to evaluate their rotation experience to help us improve the course for future participants.
- Students will be evaluated by the Course Director at the completion of the block.
Course Information

Course Director
Syed Shahzad Mustafa M.D.
Contact Person
S. Shahzad Mustafa, M.D. Phone: 585-739-6415 Email: shahzad.mustafa@rochestergeneral.org

Class Year Name
Allergy and Clinical Immunology Elective

Class Code
PED663

Elective Tags
Patient Care

Block Length
2 wks

Students
2

An elective experience is sometimes "split" by these weeks. Is it okay to split?

No

Available to the following medical students:
3rd Year, 4th Year

Where should students report?
Rochester General Medical Group Allergy and Immunology Office - 2300 West Ridge Road, 5th Floor
Rochester, NY 14626

What time should students report?
9:00 AM the first Monday of the block

Who should they report to?
S. Shahzad Mustafa, M.D.

Goal

To learn about the clinical presentation of atopic and immunological disorders and to understand how to appropriately diagnose and manage these increasingly common conditions.

Learning Objectives

1. Identify patients (both children and adults) who warrant an allergy and immunology consultation.
2. Perform an appropriate assessment (H & P) and formulate a working differential diagnosis.
3. Understand the indications for ordering diagnostic testing.
4. Understand the utility and limitations of the available diagnostic testing.
5. Develop a preliminary treatment plan for commonly seen conditions in the field (asthma, chronic rhinitis (both allergic and non-allergic), atopic dermatitis, food allergy, chronic sinusitis, acute and chronic urticaria, drug allergy, immune deficiencies, etc).
6. Be able to successfully identify signs and symptoms of the more uncommon disorders in the field (hereditary angioedema, systemic mastocytosis, allergic bronchopulmonary aspergillosis, Churg-Strauss syndrome, hypereosinophilic syndrome, periodic fever syndromes, etc).
7. Understand the indications and potential adverse effects of commonly used therapies.
8. Communicate and work effectively with the outpatient team and with patients, as well as their families.

Schedule of Activities

Students will be working in the outpatient allergy/immunology offices from roughly 8 AM – 5 PM, Mon – Fri. Students will be expected to evaluate both pediatric and adult patients, present the history & physical, and be an active participant in developing an appropriate plan for diagnostic testing and medical management.
**Didactic Activities**

Students will be expected to attend the weekly allergy/immunology division conference on Wednesdays from 7:30 – 8:30 AM as well as the weekly division grand rounds on Thursdays from 8:00 – 9:00 AM.

**Required Reading**

Students will be provided with up-to-date literature and will also have access to Middleton’s Allergy: Principles and Practice, 7th ed.

**Student Evaluations**

Students will discuss their elective experience with the course director and will be given direct, verbal feedback. To satisfactorily pass the elective, students must fulfill the expected activities, attend the required didactic sessions, and demonstrate they have achieved the stated learning objectives.
Course Information

Course Director
Michael A. Scharf M.D.
Contact Person
Vicki Perry 273.1812, Vicki_Perry@urmc.rochester.edu,
Class Year Name
Child and Adolescent Psychiatry
Class Code
PSY606
Elective Tags
Consultation Service, Inpatient Service, Outpatient Service, Patient Care, Teaching
Block Length
2 weeks or negotiable
Students
1
Prerequisites
PSY300 Psychiatry Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Student Fellow, Visiting
Where should students report?
Discuss in advance with Chief Resident
What time should students report?
Discuss in advance with Chief Resident
Who should they report to?
Discuss in advance with Chief Resident

Goal

** All psychiatry electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry**

Students will acquire basic skills for the child and adolescent psychiatric work-up, and understand the role of the child psychiatrist both as a primary caregiver and as a consultant involved in the patient care team.

Learning Objectives

** All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

By the end of the rotation the student should be able to:

- Interact with children/adolescents and their families, obtain full psychiatric history, and complete a written psychiatric evaluation.
- Understand basic psychopathology in children and adolescents, including mood disorders and
developmental disorders.

- Demonstrate basic understanding of treatments in child and adolescent psychiatry, including psychotherapies (individual, group, family; supportive and behavioral) and pharmacological treatments.
- Understand the systems that provide psychiatric and related care services to children, adolescents, and their families.

**Schedule of Activities**

**All psychiatry electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry**

The student will observe and participate in diagnostic evaluations, treatment team meetings, and group, family, and individual therapies. Specific site/service assignments will be based on student interest and availability; potential options include the Pediatric Psychiatry Consultation and Liaison Team (Golisano Children's Hospital), Child and Adolescent Outpatient Service, Child and Adolescent Partial Hospital Service, and Child and Adolescent Inpatient Service (or a combination thereof).

**Didactic Activities**

Students will meet individually with his/her preceptor to discuss patients, write-ups, and topics of mutual interest. Students may attend seminars from the Child & Adolescent Psychiatry Fellowship: exact details and schedules dependent on interest and availability.

Students are expected to complete an independent study project and present it to the clinical team they are working with by the end of their rotation. Most students prepare and present a 30 minute Powerpoint presentation, but specific details are individualized based on the nature of the project and will be determined with Rotation Preceptor.

**Required Reading**


Additional articles provided by preceptors and therapists related to cases seen.

**Student Evaluations**

Clinical evaluations by preceptor and other clinicians with whom the student works.
Course Information

Course Director
Mani Abraham Kurien M.B.B.S.
Contact Person
Vicki Perry, vicki_perry@urmc.rochester.edu, 273.1812,
Class Year Name
Inpatient Psychiatry
Class Code
PSY610
Elective Tags
Inpatient Service, Patient Care, Teaching
Block Length
2 weeks
Students
1
Prerequisites
PSY300 Psychiatry Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Discuss in advance with Dr. Kurien
What time should students report?
Discuss in advance with Dr. Kurien
Who should they report to?
Discuss in advance with Dr. Kurien

Goal

** All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry **

To gain experience and skills in evaluating and caring for patients admitted to acute psychiatric services

Learning Objectives

** All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry **

The student will be able to:

- Gather a complete clinical database for psychiatric inpatient unit, including patient interview and mental status examination, discuss with collateral informants as indicated, and record review.
- Present the clinical databases in oral and written formats
- Generate and discuss a differential diagnosis and formulation
Help implement needed treatments as a part of multidisciplinary inpatient care team.

Schedule of Activities

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

The emphasis is on active participation in all aspects of patient care. Students will work a minimum of 8:00 a.m. - 5:00 p.m. 5 days/week. The student will be assigned to a specific inpatient unit, based on planning with the course director, available options including general psychiatry, MICA (Mental Illness-Chemical Abuse), geriatrics and neuropsychiatry, and child and adolescent.

Didactic Activities

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Students will be expected to read about and discuss the learning objectives with their inpatient attending. They will attend Psychiatry Grand Rounds (Wednesdays, 8:00 - 9:00 a.m.)

Required Reading

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Case-based reading assignments will be taken from Synopsis of Psychiatry 8th edition (Kaplan and Sadock), as well as from case-based review of primary literature.

Student Evaluations

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Students will be evaluated by their inpatient attending psychiatrist. To receive a grade of pass, the student must demonstrate achievements of the learning objectives to the course director, based on receiving a satisfactory clinical evaluation.
Course Information

Course Director
Jennifer Hope Richman M.D.
Contact Person
Vicki Perry, 273.1812 vicki_perry@urmc.rochester.edu Barb Olesko, 275.4336 Connie Smith, 275.3592
Class Year Name
Consultation Psychiatry
Class Code
PSY612
Elective Tags
Consultation Service, Inpatient Service, Patient Care, Teaching
Block Length
By arrangement. Minimum of two full weeks.
Students
1
Prerequisites
PSY300 Psychiatry Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
By arrangement with Dr. Richman
What time should students report?
By arrangement with Dr. Richman
Who should they report to?
By arrangement with Dr. Richman

Goal

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

To gain skills in diagnosing and treating various psychiatric disorders that occur in the general hospital; to develop skills functioning as a psychiatric consultant in this setting.

Learning Objectives

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

By the end of the rotation the student should be able to become more comfortable with:

- the evaluation and management of depression in the medically ill
- the interactions between medical illness and psychiatric symptoms
- neuropsychiatric disorders such as delirium and dementia, somatoform disorders, suicidal behavior, anxiety or agitation with medically ill patients
- the use and management of psychopharmacologic agents in the elderly or medically ill
- the assessment of capacity in such patients.
**Schedule of Activities**

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Evaluation of new patients and follow-up of existing patients in outpatient clinics and in the hospital with attending and team rounds daily. There is a thorough review of all new consults and live interview of the patients by the attending or nurse practitioner as appropriated by our Triage nurse. Daily case discussion rounds and distribution of new consults occurs twice daily at 9:00 am and 1:00 pm, or in the interval as needed.

**Didactic Activities**

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Departmental Grand Rounds weekly, Wednesdays, 8:00 - 9:00 am.

Daily case-based and bedside teaching.

**Required Reading**

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Handouts given at orientation, access to DSM V (print or online).

**Recommended Reading**

- Concise Guide to Consultation Psychiatry  (Rundell and Wise)
- Psychiatry Mentor  (Privitera and Lyness)

**Student Evaluations**

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Mid-rotation feedback by student's preceptor. End of rotation review. Daily assessment of the student's ability to collect data, present it coherently, discuss clinical reasoning and decision-making with each case. A written evaluation with grade will be rendered by the preceptor at the end of the elective. There is also 360 input from Nurse Practitioners.
Course Information

Course Director
Aurelian N. Niculescu M.D.
Contact Person
Vicki Perry, 273.1812 vicki_perry@urmc.rochester.edu
Class Year Name
Emergency Psychiatry
Class Code
PSY615
Elective Tags
Consultation Service, Inpatient Service, Patient Care, Teaching
Block Length
2 wk blocks by arrangement
Students
1
Prerequisites
PSY300 Psychiatry Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Arrange in advance with Dr. Niculescu
What time should students report?
By arrangement with Dr. Niculescu
Who should they report to?
By arrangement with Dr. Niculescu

Goal

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

To gain experience and skills in rapid and accurate assessment of patients presenting to a psychiatric emergency room

Learning Objectives

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

By the end of the rotation the student should be able to:

- Gather a complete clinical database for a psychiatric emergency room visit, including patient interviews and mental status examination, discussion with collateral informants as indicated and record review.
- Present the clinical database in highly focused oral and written formats.
- Generate and discuss a differential diagnosis and formulation.
- Discuss the recommendations and treatment options provided to the patient.
Schedule of Activities

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

The emphasis is on active participation in all aspects of the patient evaluations. Students will work a minimum of 5 shifts/week, a combination of day and evening shifts to be scheduled on an individual basis.

Didactic Activities

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Students are expected to read about and discuss the learning objectives with the psychiatric emergency room faculty, residents, and staff during their clinical day. They will attend Psychiatry Grand Rounds, Wednesdays, 8:00 - 9:00 a.m. This is an active research site, and there are numerous opportunities for medical students to engage in research activities if desired.

Required Reading

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Case-based reading assignments will be taken from Synopsis of Psychiatry 9th edition (Kaplan and Sadock), as well as from case-based review of primary literature.

Student Evaluations

**All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry**

Students will be evaluated by faculty for each shift worked, as well as by the course director. To receive a grade of pass, the student must demonstrate achievement of the learning objectives to the course director, based partly on receiving satisfactory clinical evaluations from their attending and residents.
Course Information

Course Director
Gregory W. Sherman M.D.
Contact Person
Vicki Perry, 273.1812 vicki_perry@urmc.rochester.edu
Class Year Name
Geriatric Psychiatry
Class Code
PSY616
Elective Tags
Consultation Service, Inpatient Service, Patient Care, Teaching
Block Length
2 weeks
Students
1
Prerequisites
PSY300 Psychiatry Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Arrange in advance with Dr. Santos
What time should students report?
Arrange in advance with Dr. Santos
Who should they report to?
Arrange in advance with Dr. Santos

Goal

** All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry **

The purpose of this elective is to give the student knowledge and clinical skills related to the assessment and treatment of mental disorders in older adults.

Learning Objectives

** All psychiatry electives must be approved prior to scheduling. Please contact elective coordinator, Vicki Perry **

1. The student will understand the broad range of psychopathology manifested in older adults, and the range of treatment options available to such patients, including how such conditions and their treatments may differ from those in younger adults.

2. The student will gain experience and skills in working with selected geriatric patient populations, including mood disorders, cognitive disorders, and disorders secondary to general medical conditions, as seen in inpatient, outpatient, and consultative settings.

Schedule of Activities
Depending on each student's specific interests, an individualized schedule will be created that will include supervised clinical experiences together with a program of seminars and guided independent readings. Block length: 2 weeks.

**Didactic Activities**

As per above; didactics will be chosen from our program's broad range of clinical and research seminars and case conferences.

**Required Reading**

Individualized reading list from primary literature, together with relevant chapters from geriatric psychiatry texts such as the American Psychiatric Publishing Textbook of Geriatric Psychiatry (Blazer, Steffens, Busse, eds).

**Student Evaluations**

Evaluation form completed by supervisor(s) at the end of the rotation; feedback given on an ongoing basis during the rotation.
**Course Information**

Contact Person  
Vicki Perry 273.1812 vicki_perry@urmc.rochester.edu  
Class Year Name  
Forensic Psychiatry  
Class Code  
PSY617  
Elective Tags  
Consultation Service, Inpatient Service, Patient Care, Teaching  
Block Length  
2-4 wks  
Students  
1  
Prerequisites  
PSY300 Psychiatry Clerkship  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year, International Visiting, Visiting  
Where should students report?  
by arrangement with Dr. Weisman  
What time should students report?  
by arrangement with Dr. Weisman  
Who should they report to?  
by arrangement with Dr. Weisman  

**Goal**

**All psychiatry electives must be approved in advance by the elective coordinator, Vicki Perry**

The purpose of this elective is to give the student knowledge and clinical skills related to the care and treatment of patients in forensic psychiatric settings.

**Learning Objectives**

**All psychiatry electives must be approved in advance by the elective coordinator, Vicki Perry**

The student will be able to:

- Gain experience and basic skills in working with psychiatric patients who have involvement with the legal system
- Gather a complete clinical database for forensic psychiatric inpatient/outpatient unit, including patient interview and mental status examination, discuss with collateral informants as indicated and record review
- Present the clinical databases in oral and written formats
- Generate and discuss a differential diagnosis and formulation
Schedule of Activities

**All psychiatry electives must be approved in advance by the elective coordinator, Vicki Perry**

The student will work closely with the Forensic Psychiatry Fellows and rotate to the Forensic Psychiatry rotation sites at Rochester Psychiatric Center's Regional Forensic Unit; Monroe County Sociolegal Center and Wayne Behavioral Health.

Didactic Activities

**All psychiatry electives must be approved in advance by the elective coordinator, Vicki Perry**

The student will participate in psychiatry and law seminars, landmark case seminars and clinical case conferences that occur during the student's rotation.

Required Reading

**All psychiatry electives must be approved in advance by the elective coordinator, Vicki Perry**

Individualized reading list from primary literature, relevant chapters from Forensic Psychiatry texts and Landmark Cases supplied in the American Academy of Psychiatry and the Law's Landmark Cases, Volumes I - III, as appropriate to the seminars.

Student Evaluations

**All psychiatry electives must be approved in advance by the elective coordinator, Vicki Perry**

Evaluation form completed by supervisor(s) at the end of the rotation; feedback given on an ongoing basis during the rotation.
PSY621 Inpatient Medicine-Psychiatry

Course Information

Contact Person
Vicki Perry, 273.1812 vicki_perry@urmc.rochester.edu

Class Year Name
Inpatient Medicine-Psychiatry

Class Code
PSY621

Elective Tags
Inpatient Service,Multidisciplinary,Patient Care,Teaching

Block Length
2 wks

Students
1

Prerequisites
(ALL) MED300 Medicine Clerkship, PSY300 Psychiatry Clerkship

An elective experience is sometimes "split" by these weeks. Is it okay to split?

No

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
1-9200 (first floor R-Wing by blue elevators) at 7AM

What time should students report?
7AM

Who should they report to?
Michelle Steffers, MD or teaching attending on service

Goal

** All psychiatry electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry **

Goal:

To gain experience and develop skills in evaluating and caring for patients with acute medical conditions complicated by co-existing psychiatric and/or behavioral conditions.

Inpatient rotation is on the Inpatient Medicine in Psychiatry unit (1-9200), a 20-bed medical unit dedicated to the needs of these patients. Students will be assigned patients and, under close supervision of the teaching attending, will participate in facilitating all aspects of care.

Learning Objectives

** All psychiatry electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry **

By the end of the rotation the student should be able to:
Gather and complete the clinical data relevant for an acute medical unit, including interview, physical assessment, and discussion with collateral informants and record review

- Present the clinical data in oral and written formats to the attending and at team-based multidisciplinary rounds
- Generate and discuss a differential diagnosis and formulation that will help guide treatment
- Help implement treatments often facilitated by members of social work, nursing, and members of psychiatry and psychology consult team including behavioral plans and family meetings.
- Develop necessary skills required for delivery of care utilizing a team-based, collaborative and interdisciplinary model

### Schedule of Activities

**All psychiatry electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry**

The emphasis is on active participation in all aspects of patient care. Students will be expected to arrive no later than 7AM to obtain sign-out/hand-off information in their patients from the overnight providers, pre-round on their patients followed by work rounds the teaching attending and interdisciplinary rounds. Students are expected to be on serve 5 days/week (hours usually from 7~4 however this can vary) and, for those students doing subinternships, one Saturday. The student will be working closely with the teaching attending as well as with members of the team (including nurse-practitioners and physician-assistants) who will help facilitate appropriate use of hand-offs, orders, problem lists discharge summaries and medical reconciliations as consistent with IMIPS documentation. During the rotation, the student will have opportunities to observe and participate in evaluations undertaken by members of the psychiatry consult liaison team, ECT consults, and general medical conslts done for patients admitted to the psychiatry floors.

### Didactic Activities

**All psychiatry electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry**

- Medicine Grand Rounds: Tuesdays, 12 - 1
- Psychiatry Grand Rounds: Wednesdays, 8 - 9
- Medicine noon time lecture: Daily 12 - 1
- IMIPS lecture series: Thursday, 1 - 2 (required; students will be expected to present a topic of interest related to a case)

### Required Reading

**All psychiatry electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry**

Case-based reading assignments will be taken from Harrison's Principle of Internal Medicine and Up-To-Date, as well as from case-based primary literature. A series of articles and references will be provided in the Welcome packet.

### Student Evaluations
** All psychiatry electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry **

Students will be evaluated by teaching attending and other members of the team who have had contact with the student.
Course Information

Course Director
Robert Lawrence Weisman D.O.
Contact Person
Vicki Perry, Coordinator: 273.1812 vicki_perry@urmc.rochester.edu
Class Year Name
Outpatient Psychiatry
Class Code
PSY622
Elective Tags
Consultation Service, Outpatient Service, Patient Care, Teaching
Block Length
2 weeks
Students
1
Prerequisites
PSY300 Psychiatry Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
By arrangement with Joann Leslie
What time should students report?
By arrangement with Joann Leslie
Who should they report to?
By arrangement with Joann Leslie

Goal

** All Psychiatry Electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry **

To gain understanding and experience in diagnosing and treating various psychiatric disorders in an outpatient setting utilizing different modalities of treatment and community resources.

Learning Objectives

** All Psychiatry Electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry **

The student will be able to:

- learn assessment and management of psychiatric disorders of all age groups in different ambulatory settings
- understand the differences in the ambulatory system versus other service systems within a behavioral health care setting
- understand the role of psychiatrist and different models of care in ambulatory settings
**Schedule of Activities**

**All Psychiatry Electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry**

Half day supervised clinics at Older Adults Clinic, Child Outpatient Clinic, Adult Ambulatory Clinic (Strong Ties, General Adult Ambulatory), and nursing home consultation

**Didactic Activities**

**All Psychiatry Electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry**

Varies per clinic site

**Required Reading**

**All Psychiatry Electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry**

DSM-IV: Synopsis of Psychiatry; additional recommended readings available at service sites

**Student Evaluations**

**All Psychiatry Electives must be approved prior to being scheduled. Please contact elective coordinator, Vicki Perry**

Mid-rotation feedback. A written evaluation will be completed by the preceptor at the end of the elective. End of rotation review.
Course Information

Course Director
Jennifer J. Findeis-Hosey M.D.
Contact Person
Lisa Testa 273-4135; Lisa_Testa@urmc.rochester.edu
Class Year Name
Introduction to Pathology/Laboratory Medicine
Class Code
PTH601
Elective Tags
Consultation Service, Patient Care
Block Length
2 weeks
Students
3
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
G5204
What time should students report?
9:00 am.
Who should they report to?
Lisa Testa/Jennifer Findeis-Hosey, MD

Goal

The goal of this rotation is to give students an expanded view of medicine through a greater understanding of Pathology. Students will work closely with the faculty, staff, and residents of the Department of Pathology/Laboratory Medicine at Strong Memorial Hospital. Time will be spent in both Anatomic Pathology (AP) and Clinical Pathology/Laboratory Medicine (CP/LM), including rotations in some, but not all, of the following areas: Autopsy Pathology, Clinical Chemistry, Cytopathology, Hematopathology, Microbiology, Surgical Pathology, and Transfusion Medicine (including the Blood Bank, Apheresis, and Coagulation). Students will spend on average 2-3 days within an area of the department, which will allow to student to encounter the many facets of Pathology. To further enhance their learning during the rotation, students will attend didactic conferences with Pathology residents and submit a short written summation of either an interesting case that they encountered or a diagnostic entity for VisualDx.

Learning Objectives

By the end of the rotation the student should be able to:

- Demonstrate a general understanding of the scope of pathology as a field of medicine.
- Understand the consultative role that a pathologist may play in the care of a patient, and how clinicians may utilize pathologists in this role.
- Review pathology-related topics initially encountered in the first and second year medical school curriculum and expand on these topics through encounters in the areas of AP and CP/LM.

Schedule of Activities

Daily schedules will vary by the area of Pathology that the student is rotating in, however the hours of the rotation are approximately 7:30 am to 5 p.m, weekdays only. Students will work with residents, fellows, faculty
and staff during the rotation. Didactic conferences with the pathology residents are available most days at 7:30/8 a.m. and at noon, and medical students will be encouraged to attend these.

**Didactic Activities**

Numerous pathology teaching conferences are available for rotating medical students in conjunction with our residency program. These teaching conferences encompass both AP and CP/LM and involve interactive didactics at the multi-headed microscope, question-based didactics, unknown slide sessions, and gross organ/specimen review in the autopsy suite.

Students additionally receive case-related teaching from residents, fellows, staff and faculty members during the daily operations of the specific areas of Pathology.

Students will be provided with an "Unknowns" slide set that they will be able to review during their rotation. At the end of the rotation they will review these slides with an attending pathologist to further solidify diagnostic approaches in Pathology which may further translate to clinical practices.

Students will complete a short writing assignment by the end of the rotation, choosing between a summary of a case encountered during the rotation or a diagnostic entry for VisualDx.

**Required Reading**

There is no required reading, however students are given access to our extensive collection of pathology textbooks/reading materials.

**Student Evaluations**

Rotating students will be evaluated by the members of the department that they work with. ACGME milestones will be used as a benchmark, including ability to synthesize presented materials, fund of knowledge, effort, professionalism, and written case/diagnostic summary.
Course Information

Course Director
Jennifer J. Findeis-Hosey M.D.
Contact Person
Lisa Testa 273-4135; Lisa_Testa@urmc.rochester.edu
Class Year Name
Surgical Pathology
Class Code
PTH602
Elective Tags
Consultation Service, Patient Care
Block Length
2-4 weeks Must Contact Dept. for Approval.
Students
1
Prerequisites
PTH601 Introduction to Pathology/Laboratory Medicine
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Surgical Pathology (G-5204)
What time should students report?
9:00A
Who should they report to?
Lisa Testa

Goal

The goal of this rotation is to build upon the PTH601 (Introduction to Pathology/Laboratory Medicine) experience and give students an advanced experience in Surgical Pathology. In this advanced rotation, students will spend in the gross room examining surgical specimens, at the frozen section bench, and actively participating in the workup of surgical pathology specimens within our subspecialty practice at Strong Memorial Hospital. As in PTH601, students will attend didactic conferences with Pathology residents. This course is available by request. Please email contact person with dates requested.

Learning Objectives

By the end of the rotation the student should be able to:
Make basic pathological diagnoses.
Understand the process by which a pathologist acts as a consultant to the clinician and the interactive process involved.

Schedule of Activities

The hours of the rotation are approximately 7:30 am to 5 p.m, weekdays only. Students will typically be paired with a resident or fellow on a subspecialty service for a week at a time. During that week they will be an active member of that subspecialty service, participating in the formulation of pathologic diagnoses, as well as gaining exposure the frozen sections and the macroscopic examination of oncologic and non-oncologic surgical specimens.

Didactic Activities
Numerous pathology teaching conferences are available for rotating medical students in conjunction with our residency program. These teaching conferences encompass both anatomic and clinical pathology/laboratory medicine and involve interactive didactics at the multi-headed microscope, question-based didactics, unknown slide sessions, and gross organ specimen review in the autopsy suite.

Students additionally receive one-on-one case-related teaching from residents, fellows, and faculty members as they work to formulate pathologic diagnoses in our daily clinical practice.

**Required Reading**

Students are given access to our extensive collection of pathology textbooks, which are available for review as they formulate diagnoses for the cases that they are exposed to.

**Student Evaluations**

Rotating students will be evaluated by members of the department that they work with. They will be evaluated in regards to their ability to synthesize material presented to them, fund of knowledge, effort, and participation.
Course Information

Course Director
Scott Alan Kirkley M.D.
Contact Person
Lisa Testa 273-4135 Lisa_Testa@urmc.rochester.edu
Class Year Name
Clinical Pathology
Class Code
PTH603
Elective Tags
Consultation Service, Patient Care
Block Length
2 weeks Must Contact Dept. for Approval.
Students
1
Prerequisites
PTH601 Introduction to Pathology/Laboratory Medicine
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Lisa Testa (G-5204)
What time should students report?
10:30A
Who should they report to?
Lisa Testa

Goal

The goal of this rotation is to expand on the PTH601 (Introduction to Pathology/Laboratory Medicine) prerequisite elective, and give students additional exposure in Clinical Pathology/Laboratory Medicine. Students will work with the Course Director/Co-Director to create a schedule which may encompass time on the Transfusion Medicine, Coagulation, Clinical Chemistry, Microbiology and/or Hematopathology services. This course is available by request. Please email contact person with dates requested.

Learning Objectives

Will be determined by student and course director depending on rotation composition/areas of focus.

Schedule of Activities

The hours of the rotation are approximately 7:30 a.m. to 5 p.m., weekdays only. The schedule of activities will vary depending on the areas that the student rotates through, but may include the following:
- Attendance at Blood Bank morning laboratory rounds.
- Working with Pathology residents to triage clinical issues involving the Blood Bank and Chemistry laboratories.
- Reviewing of Hematopathology cases, including formulation of diagnoses.
Didactic conferences with the pathology residents are available most days at 7:30/8 a.m. and at noon.

Didactic Activities

Numerous pathology teaching conferences are available for rotating medical students in conjunction with our residency program. These teaching conferences encompass both anatomic and clinical pathology. Students
additionally receive one-on-one case-related teaching from residents, fellows, and faculty members.

**Required Reading**

Although there is no required reading, reference books are available on all rotations for the medical student to access.

**Student Evaluations**

Rotating students will be evaluated by faculty that they work with. They will be evaluated in reference to attendance on the rotation, their understanding of the various policies and procedures within Pathology, diagnostic skills (when applicable), and their final written case summation.
Course Information

Course Director
Jennifer J. Findeis-Hosey M.D.
Contact Person
Lisa Testa 273-4135; Lisa_Testa@urmc.rochester.edu
Class Year Name
Anatomic Pathology
Class Code
PTH605
Elective Tags
Consultation Service, Patient Care
Block Length
2-4 weeks Contact Dept. for Approval.
Students
1
Prerequisites
PTH601 Introduction to Pathology/Laboratory Medicine
An elective experience is sometimes “split” by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Surgical Pathology (G-5204)
What time should students report?
9:00A
Who should they report to?
Lisa Testa

Goal

The goal of this rotation is build upon the PTH601 (Introduction to Pathology/Laboratory Medicine) elective and provide students with an advanced rotation in Anatomic Pathology. Students will work closely with Pathology faculty, staff, and residents at Strong Memorial Hospital. Students will work with the Course Director to create a schedule which may include time on Surgical Pathology, Cytopathology, Autopsy Pathology, and Neuropathology. To further enhance their learning during the rotation, students will attend didactic conferences with Pathology residents.

Learning Objectives

By the end of the rotation the student should be able to:
Make basic pathological diagnoses.
Understand the process by which a pathologist acts as a consultant to the clinician and the interactive process involved.

Schedule of Activities

The hours of the rotation are approximately 7:30 am to 5 p.m, weekdays only. The schedule of activities will vary depending on the areas that the student rotates through, but may include the following:

Surgical Pathology: Students will typically be paired with a resident or fellow on a subspecialty service for a week at a time. During that week they will be an active member of that subspecialty service, participating in the formulation of pathologic diagnoses, as well as gaining exposure the frozen sections and the macroscopic examination of oncologic and non-oncologic surgical specimens. Exposure to an autopsy is available upon request.
Autopsy or Neuropathology: The student will be exposed to post mortem examinations and presentations of organs to the clinical attending, and participate in sign-out sessions with the attending pathologist.

Cytopathology: Students will attend daily sign-out sessions with the attending cytopathologist, as well as accompany the cytopathology faculty and staff on procedures (i.e., fine needle aspirates, EBUS, etc.)

Didactic conferences with the pathology residents are available most days at 7:30/8 a.m. and at noon.

**Didactic Activities**

Numerous pathology teaching conferences are available for rotating medical students in conjunction with our residency program. These teaching conferences encompass both anatomic and clinical pathology and involve interactive didactics at the multi-headed microscope, unknowns sessions, and gross organ specimen review in the autopsy suite.

Students additionally receive one-on-one case-related teaching from residents, fellows, and faculty members as they work to formulate pathologic diagnoses in our daily clinical practice.

**Required Reading**

Although there is no required reading, reference books are available on all rotations for the medical student to access.

**Student Evaluations**

Rotating students will be evaluated by the members of the department that they work with. They will be evaluated in reference to attendance on the rotation, fund of knowledge, synthesis of materials, understanding of the various policies and procedures involved in Anatomic Pathology, and their grossing and diagnostic skills (when applicable).
Course Information

Contact Person
Lisa Testa 273-4135 Lisa_Testa@urmc.rochester.edu
Ildiko Nagy 273-4097 Ildiko_Nagy@URMC.rochester.edu

Class Year Name
Hematopathology

Class Code
PTH606

Elective Tags
Consultation Service, Patient Care

Block Length
2 weeks Must contact dept. for approval.

Students
1

Prerequisites

PTH601 Introduction to Pathology/Laboratory Medicine

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, Visiting

Where should students report?
Hempath Office 3-3600

What time should students report?
8:30A

Who should they report to?
Susan Martin

Goal

This course is an advanced elective to further expand on the pre-requisite PTH601 course. Working with our hematopathology faculty, fellow and residents, the medical student will have over-the-scope time, assess benign disorders, lymphomas, leukemias and myeloproliferative disease. This course is available by request. Please email contact person with dates requested.

Learning Objectives

By the end of the rotation students should be able to explain the role of the hematopathologist in the care of patients and be able to understand how hematopathology diagnoses are rendered (process and content).

Schedule of Activities

Participate in mandatory conferences, sign-out with faculty/fellow in multi-headed scope room, attend interdisciplinary conferences.

Didactic Activities

Students will learn through case review (individual and during sign-outs), resident didactic conferences, and multidisciplinary conferences.

Required Reading

PTH606 Hematopathology
Not required. Our training program uses Doctor Hsi's *Hematopathology* textbook. This is available for the student to reference in the Hematopathology Unit.

**Student Evaluations**

The student will be evaluated using the ACGME competency guidelines.
Course Information

Course Director
Jennifer J. Findeis-Hosey M.D.
Contact Person
Lisa Testa 273-4135 Lisa_Testa@urmc.rochester.edu
Class Year Name
Forensic Pathology
Class Code
PTH607
Elective Tags
Consultation Service
Block Length
2 weeks
Students
1
Prerequisites
PTH601 Introduction to Pathology/Laboratory Medicine
An elective experience is sometimes “split” by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Surgical Pathology (G-5204)
What time should students report?
8:30AM
Who should they report to?
Lisa Testa

Goal

Gain a deeper understanding of Forensic Pathology while rotating at the Monroe County Office of the Medical Examiner. This course is offered by request and is an advanced elective following completion of the PTH601 elective. Please email contact person with dates requested.

Learning Objectives

Gain a deeper understanding of Forensic Pathology while rotating at the Monroe County Medical Examiners’ Office.

Schedule of Activities

Observe autopsies at the Monroe County Medical Examiners’ Office (MEO). Students may have opportunities to visit scenes or attend court to observe case-related trials. Given the legal nature of the work performed at the MEO, this is an observation-only rotation.

Didactic Activities

No formal didactic activities.

Required Reading

No required reading.
Student Evaluations

ACGME guidelines will be used as a benchmark.
Course Information

Course Director
Mahlon D. Johnson M.D., Ph.D.
Contact Person
Lisa Testa 273-4135 Lisa_Testa@urmc.rochester.edu
Class Year Name
Neuropathology
Class Code
PTH608
Elective Tags
Consultation Service, Patient Care
Block Length
2 weeks
Students
1
Prerequisites
PTH601 Introduction to Pathology/Laboratory Medicine
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Room 1-6429
What time should students report?
8:30AM
Who should they report to?
Linda Crandall

Goal

During this elective, the student will acquire a basic understanding of the reactions of the central nervous system and will formulate a diagnosis for the most common and classical neuropathologic lesions encountered at autopsy and at the surgical bench, with particular attention to the diagnosis of CNS neoplasms, cerebrovascular diseases, and neurodegenerative diseases. The student will gain insight into how the neuropathologist completes his/her diagnostic workup. This course is available by request. Please email contact person with requested dates.

Learning Objectives

**Brain cutting conference**
1. Identify gross neuroanatomical landmarks and areas to be sampled for microscopic evaluation
2. Describe the gross abnormalities using pathologic terminology
3. Explain the basic concept of tissue processing (i.e. what happens from the bench to the slide)
4. Analyze the autopsy brain slides
5. Recognize and articulate microscopic abnormalities
6. Formulate a clinical pathologic diagnosis on each case

**Neurosurgical specimens**
1. Describe the process of intraoperative evaluation of tissue samples.
2. Formulate a differential diagnosis based on the clinical history and CT/ MR imaging findings, and correlate this with the gross and histologic specimens during intraoperative evaluation
3. Participate in the evaluation of the cytologic and histologic intraoperative preparations with the attending
4. Formulate a diagnosis prior to the reviewing the slides with the attending
5. Manage the cases from the medical and cost effective points of view
6. Apply specialized techniques such as cytogenetic, molecular, immunohistochemistry and electron microscopy to help formulate/solidify a diagnosis
7. Interpret the ancillary studies and correlate the findings with the diagnosis

**General Responsibilities**
1. Review neuropathologic autopsy and surgical slides and formulate diagnoses independently prior to meeting with the attending and then review with the attending.
2. Review the OR schedule, look up history on potential neurosurgical cases that may require intraoperative evaluation, review the history/imaging with the attending on call
3. Attend calls for intraoperative evaluation of neurosurgical cases during weekdays from 8 am-5 pm
4. Review the autopsy histories; attend and participate in Brain Cutting Conference
5. Observe grossing of neurosurgical specimens (with resident/PA)
6. Review Blackboard (online) training course for neuropathology
7. Complete Neuropathology exam online exam (optional)

**Schedule of Activities**

Students will review cases, participate in sign-out sessions with faculty, and attend neuropathology-related conferences. Students may participate in Pathology resident didactic sessions.

**Didactic Activities**

**Didactic Activities**

1. Microscopic “sign out” with attending including intraoperative assessments (see above)
2. Teaching slide sets (review on own, describe slides using pathologic terminology, formulate differential/final diagnosis, then review and discuss with attending)
3. Blackboard modules (self-study)

**Conferences**

1. Brain cutting (required) / every Tuesday at 9:30 am, 1-6468 (autopsy suite)
2. Pediatric Brain Tumor Conference / first Tuesday of month at noon, Van Wagenen Room 2-8130
3. Brain cutting of Medical Examiner’s cases / 1st Wed every month at M.E.’s office (subject to change)
4. Neuroscience teaching conference / every Thursday at 7:30 am, Imaging Sciences Conference Room, G-3302
5. Multidisciplinary Neuro-oncology conference (required) / every Thursday at 8:15-9:00 am, Imaging Sciences Conference Room, G-3302
6. Neuromuscular conference (slide review) / 2nd and 4th Thursday every month 12pm noon (NP s/o room)
7. Neurology Grand Rounds / every Friday at 9:00 am K-307 (3-6408); followed by case presentations at 10:00 am
8. Neurosurgery/Neuropath didactic conference / Friday 10:00 am (TBA), L. Slaughter room

**Required Reading**

Although there is no required reading, suggested references are below:

*Most are available in the neuropathology library (Powers room #1-6442)*

Student Evaluations

The student will be evaluated by faculty using the ACGME competencies as a benchmark, but is not limited to, attendance on the rotation, understanding of the various policies and procedures involved in neuropathology, diagnostic skills at the end of their rotation.
Course Information

Course Director  
Stan Lee Weiss M.D.

Contact Person  
Stephen Korn, Medical Student Curriculum Coordinator; (585)-273-5476; stephen_korn@urmc.rochester.edu

Class Year Name  
General Radiology

Class Code  
RAD602

Elective Tags  
Consultation Service, Inpatient Service, Multidisciplinary, Outpatient Service, Patient Care, Primary Care, Research-Clinical

Block Length  
2 Weeks

Students  
4

An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No

Available to the following medical students:  
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?  
Students will be instructed where to report prior to the start of the rotation.

What time should students report?  
Varies, but typically 7:30 am - 8:00 am or earlier on the first day.

Who should they report to?  
Stephen Korn; Imaging Sciences, Room 3-4447.

Goal

The goal of the General Radiology elective is to allow medical students to develop an appreciation of the complexity of diagnostic imaging including an understanding of the types of studies which are available and the information they can provide.

The General Radiology elective is structured to provide an overview of the breadth of diagnostic imaging, invasive radiology, and an introduction to the fundamentals of diagnostic radiology. This includes the basics of chest, skeletal, gastrointestinal, and genitourinary system imaging, and introduces angiography, nuclear medicine, magnetic resonance imaging, computed tomography, ultrasound, and neuroradiology.

It is not the purpose of the elective to have students become skilled interpreters of imaging studies. A familiarity will be established, but directed to the use of the technologies involved.

Learning Objectives

The learning objectives of this elective are to assist medical students in:
• Developing an understanding of the differences between, and interactions among, each of the imaging specialties and the operation of these radiologic subspecialties in the context of modern radiologic and medical practice.
• Learning basic plain film and CT interpretation and becoming familiar with sonography and MR, and recognizing limitations in knowledge and understanding of radiological interpretation.
• Gaining an understanding of the diagnostic limitations of imaging studies and how these parameters affect patient care, clinical indications for obtaining studies, the relative risk/benefit of certain radiologic procedures, and the basic technical aspects of how examinations are performed.

Schedule of Activities
During the elective, the student's major assignment will be to observe image interpretation and various procedures in the assigned Radiology imaging suite(s).

Attendance at the daily Radiology resident conferences and selected tumor board conferences is not required but is strongly encouraged.

Daily evaluations from the faculty, fellows, and/or residents that the medical student works with are required. It is the student's responsibility to secure the evaluations and submit them to the elective coordinator upon completion of the elective.

Students will be responsible for writing and presenting one interesting patient case that has been observed and submitting the write-up to the elective coordinator upon completion of the elective. The case write up should include:

- Indications for exam radiologic findings.
- Patient history interpretation of findings.
- Type of exam performed.
- Differential diagnosis
- Diagnostic options follow-up
- Key images (include copies of films)
- Appropriate literature references

**Didactic Activities**

- Daily resident conference (12:00 - 1:30PM)
- Selected multidisciplinary/tumor board conferences

**Required Reading**

Recommended:
- Essential Radiology by Richard B. Gunderman
- Radiology Made Ridiculously Simple by Patrice Tetreault, MD
- Squire's Fundamentals of Radiology Sixth Edition by Robert Novelline

**Student Evaluations**

Residents, fellows, and/or faculty evaluate students daily on the basis of attendance and interest as well as on their communication, medical knowledge, interpersonal, and professional skill set as well as the presentation of an interesting patient case discovered during the elective. Upon completion of the elective, it is the students' responsibility to submit their rotation evaluations and interesting case write-up to the elective coordinator.
Course Information

Course Director
Vaseem U. Chengazi M.D., Ph.D.
Contact Person
Veronica Crittenden, x5-4741, veronica_crittenden@urmc.rochester.edu
Class Year Name
Nuclear Medicine
Class Code
RAD603
Elective Tags
Patient Care
Block Length
Negotiable
Students
2
An elective experience is sometimes "split" by these weeks. Is it okay to split?
Yes
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
G-3207
What time should students report?
8:00 a.m.
Who should they report to?
Receptionist

Goal

: To understand the basics for the clinical application of diagnostic and therapeutic nuclear medicine procedures to the patient population.

Learning Objectives

By the end of the rotation the student should be able to:

?Understand the clinical basics for functional imaging in diagnostic nuclear medicine procedures such as bone scans, infectious disease localization, papillary studies, cardiac procedures, ventilation perfusion scan and tumor and endocrine imaging.

?Establish an understanding of the basic requirements for radiation safety for workers and patients.

?Be able to describe the differences in approach and calculation of dose for various radioisotopic therapeutic procedures.

?Develop at least a basic approach to the evaluation of the correlated and competitive modalities in their application to various disease states.

Schedule of Activities

During the morning, the students will participate in a basic activity with the residents and attending faculty in the diagnostic/therapeutic clinic activity. In the afternoons, students will be expected to participate in the daily reading/instructional session from 2:30-5:00 p.m. in which the day?s caseload is used as a springboard for discussion of diagnostic and therapeutic problems and applications. Students will also be expected to participate in the routine conference schedule of both the Division of Nuclear Medicine and the Department of Radiology.

Didactic Activities
Regular conference schedule of Nuclear Medicine and Imaging Sciences.

**Required Reading**

*A Clinician's Guide to Nuclear Medicine. Edited by Andrew Taylor, M.D., and David M. Schuster and Naomi Alazraki*

**Student Evaluations**

Student evaluations will be collated by the course director utilizing reports from both attending and resident faculty as to student participation and development.
Course Information

Course Director
Stan Lee Weiss M.D.
Contact Person
Stephen Korn, Medical Student Curriculum Coordinator; (585)-273-5476; stephen_korn@urmc.rochester.edu
Class Year Name
Subspecialty Radiology
Class Code
RAD610
Elective Tags
Consultation Service, Inpatient Service, Multidisciplinary, Outpatient Service, Patient Care, Primary Care, Research-Clinical
Block Length
2 Weeks
Students
1
Prerequisites
RAD602 General Radiology
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Students will be directed where to report prior to the start of the rotation.
What time should students report?
Varies, but typically 7:30 am or earlier on the first day.
Who should they report to?
Stephen Korn; Imaging Sciences, Room 3-4447

Goal

This elective is intended for students who are either preparing for a career in radiology or have a particular interest in a subspecialty area of radiology. Completion of the General Radiology elective (RAD602) is a prerequisite.

Learning Objectives

At the completion of the elective, students should be able to increase understanding of diagnostic radiology subspecialties by supplementing exposure to radiology from didactic material taught in the first two years of medical school as well as from the General Radiology elective. This includes:

• Identifying indications for exams based on clinical, lab, and prior radiographic information.
• Describing how the exam is performed and necessary patient preparations.
• Identifying what alternative diagnostic procedures exist.
• Understanding the general principles of interpretation.
• Following up on clinical outcome.

Schedule of Activities

- During the elective, the student's major assignment will be to observe image interpretation and various procedures in the assigned Radiology imaging suite(s).

- Attendance at the daily Radiology resident conferences and selected tumor board conferences is not required but is strongly encouraged.
Daily evaluations from the faculty, fellows, and/or residents that the medical student works with are required. It is the student's responsibility to secure the evaluations and submit them to the elective coordinator upon completion of the elective.

Students will be responsible for writing and presenting one interesting patient case that has been observed and submitting the write-up to the elective coordinator upon completion of the elective. The case write-up should include:

- Indications for exam radiologic findings.
- Patient history interpretation of findings.
- Type of exam performed.
- Differential diagnosis
- Diagnostic options follow-up
- Key images (include copies of films)
- Appropriate literature references

Didactic Activities

- Daily resident conference (12:00 - 1:30 PM)
- Selected multidisciplinary/tumor board conferences

Required Reading

Recommended:
- Essential Radiology by Richard B. Gunderman
- Radiology Made Ridiculously Simple by Patrice Tetreault, MD
- Squire's Fundamentals of Radiology Sixth Edition by Robert Novelline

Student Evaluations

Residents, fellows, and/or faculty evaluate students daily on the basis of attendance and interest as well as on their communication, medical knowledge, interpersonal, and professional skill set as well as the presentation of an interesting patient case discovered during the elective. Upon completion of the elective, it is the students' responsibility to submit their rotation evaluations and interesting case write-up to the elective coordinator.
Course Information

Contact Person
Stephen Korn, Medical Student Curriculum Coordinator; (585)-273-5476; stephen_korn@urmc.rochester.edu

Interventional Radiology Elective

Class Code
RAD668

Elective Tags
Consultation Service, Inpatient Service, Multidisciplinary, Outpatient Service, Patient Care, Primary Care

Block Length
2 Weeks

Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
Students will be instructed where to report prior to the start of the elective.

What time should students report?
Varies, but typically 6:45 am or earlier on the first day.

Who should they report to?
Stephen Korn; Imaging Sciences, Room 3-4447

Goal

This elective is designed for students strongly interested in or committed to Interventional Radiology as a career. This is an immersive elective in the Interventional section where hands-on experience can be gained performing a diverse range of vascular and nonvascular image-guided, minimally invasive procedures. Students will work with residents, fellows, and attending radiologists performing interventions in almost all organ systems.

Learning Objectives

The learning objectives of this elective are to assist the medical student in:
• Introduction to radiologic vascular anatomy.
• Recognizing the benefits of interventional radiology procedures.
• Familiarization and discussion of indications of procedures.

Schedule of Activities

• During the elective, the student's major assignment will be to observe/participate in various procedures in the Interventional Radiology imaging suites.

• There will be morning rounds with the residents, fellows, attending radiologists, and other interventional staff to discuss/review the scheduled patient cases.

• Attendance at the daily radiology resident conferences and selected multidisciplinary/tumor board conferences is not required but is strongly encouraged.

• Daily evaluations from the residents, fellows, and/or faculty that medical students work with are required, and it is the students' responsibility to secure the evaluations and submit them to the elective coordinator upon completion of the elective.
**Didactic Activities**

- Daily resident conference (12:00 - 1:30 PM)
- Selected multidisciplinary/tumor board conferences

**Required Reading**

Recommended:
- Case Review: Vascular and Interventional Imaging by Suresh Vedantham and Jennifer Gould
- Handbook of Interventional Radiologic Procedures Fourth Edition by Krishna Kandarpa and Lindsay Machan
- Squire’s Fundamentals of Radiology Sixth Edition by Robert Novelline

**Student Evaluations**

Residents, fellows, and/or faculty evaluate students daily on the basis of attendance and interest as well as on their communication, medical knowledge, interpersonal, and professional skill set. Upon completion of the elective, students are responsible to obtain their evaluations and submit them to the elective coordinator.
RHB600 Physical Medicine and Rehabilitation

Course Information

Contact Person
Patricia DiGiorgio 585-275-3274

Class Year Name
Physical Medicine and Rehabilitation

Class Code
RHB600

Elective Tags
Consultation Service, Inpatient Service, Outpatient Service

Block Length
2 - 4 weeks

Students
4

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
Students should report to the inpatient rehabilitation unit on 5-1200 the first day of their elective for 830am meeting

What time should students report?
8:30 a.m.

Who should they report to?
5-1200 Inpatient Unit: Dr. Poduri

Goal
To develop an appreciation of the impact of disease and injury on function, and to understand the application of physical medicine approaches and rehabilitation strategies to the alleviation of functional impairments.

Learning Objectives

By the end of the rotation the student should be able to:
- Demonstrate proficiency in examination of the musculoskeletal system.
- Integrate neurologic and musculoskeletal findings into the development of functional assessments.
- Predict the nature of functional impairment resulting from specific neurologic or anatomic injuries.
- Understand the roles of each of the members of the rehabilitation team.
- Order appropriate tests as required to develop a musculoskeletal or neurologic diagnosis, as well as a rehabilitation diagnosis.
- Order appropriate therapeutic interventions based on functional diagnoses.
- Order appropriate interventions in the face of acute illness or injury to prevent unnecessary complications that frequently lead to disability.
- Describe the breadth of the field of PM&R, and discuss the roles of various settings, including acute inpatient, subacute/SNF and outpatient rehabilitation.

Schedule of Activities

This elective is designed with flexibility in mind. Inpatient, outpatient, or a combination of experiences are possible. The elective will focus on providing students with an education and an exposure ot the broad field of Physical Medicine and Rehabilitation.

Students who desire to rotate on an inpatient service will become a part of the rehabilitation team, serving with a resident and an attending physician. Students will round with the team, as well as evaluate and manage their own patients. They will observe their patients as they undergo rehabilitation, gaining an understanding of the variety of therapeutic approaches used. Students assigned to SMH will see patients recovering from spinal...
cored injury, stroke, amputation, orthopaedic surgery, burns, multiple trauma and a variety of neurologic conditions. Students assigned to St. Mary's will work with adult and pediatric patients recovering from traumatic brain injury, intracerebral hemorrhage, stroke, brain neoplasm, in addition to the rehabilitation diagnoses described for SMH.

Students who desire to rotate through the outpatient clinics will work with patients with a variety of needs including but not limited to: musculoskeletal injuries, electrodiagnostic consultation, pain management, post concussive syndrome, spinal cord injury, stroke, amputee care, arthritis, and the evaluation and management of rehabilitation needs in the outpatient setting. Clinic sites include SMH, St. Mary's Hospital, Comprehensive Rehabilitation Center, Rochester Rehabilitation Center, and the VA Outpatient clinic.

**Didactic Activities**

Students will attend Rehabilitation Grand Rounds, journal club, and didactic sessions which occur on Thursday mornings.

**Required Reading**

Materials given on first day of rotation.

**Student Evaluations**

To receive a grade of satisfactory, students must see all assigned patients, write or dictate admission, discharge and progress reports in a timely fashion and demonstrate proficiency in the examination of their patients, with particular emphasis on the musculoskeletal and neurologic exams, in the evaluation of functional deficits and in the formulation of appropriate treatment plans. A faculty preceptor will observe each student, and the preceptor and student at the end of the rotation will complete a written evaluation.
Course Information

Contact Person
Marge Roberts, 273-1841, marjorie_roberts@urmc.rochester.edu

Class Year Name
Surgical Intensive Care Unit

Class Code
SUR606

Elective Tags
Inpatient Service

Block Length
4 weeks

Students
4

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
8-3600

What time should students report?
An e-mail will be sent prior to beginning of elective with reporting instructions

Who should they report to?
Advance Practice Provider

Goal

To understand the pathophysiology of critically ill patients.

Learning Objectives

By the end of the rotation the student should be able to:

- Recognize critically ill patients and learn to prioritize problems.
- Explain fluid shifts and fluid management in critically ill patients.
- Solve acid/base problems.
- Understand when to use the different modalities of mechanical ventilation.
- Identify arrhythmias.
- Explain and use all the hemodynamic parameters which can be obtained from a pulmonary artery catheter.
- Identify the causes and manage hypoxia.
• Identify the causes and manage hypercarbia

• Identify the causes and manage oliguria.

• Appreciate the pharmacokinetics and pharmacodynamics of drugs used in the ICU.

• Identify and treat the various forms of shock.

• Write appropriate total parenteral nutrition/total enteral nutrition orders.

**Schedule of Activities**

Students participate in the daily rounds in the Intensive Care Unit. They follow and present patients to the ICU Attending and participate in all didactic sessions. Sub-Internship students will be expected to take call approximately every third or fourth night. Nights that you take call you will work directly with the ICU residents and APPs. You will leave after morning rounds, or no later than 9:00 a.m. Elective students are not required to take call. Both elective and Sub-I students will be required to shadow one of the SICU nurses for one night during your rotation. You will come in at 7p and stay until 7a, and then be off the next day. Also, you will be required to shadow Celeste Winters, our Respiratory Therapist, for four hours one afternoon.

**Didactic Activities**

Students participate in the daily lectures given in the unit by the ICU attending or fellow and selected personnel.

**Student Evaluations**

To receive a grade of Pass, the student must participate in ICU activities and present their assigned patients on rounds. If taken as a subinternship, additional requirements will be discussed with Dr. Kaufman directly.
Course Information

Course Director
Michael Clinton Stoner M.D.
Contact Person
Julie K. Burkhart, 31712/Susan Edwards, 56772
Class Year Name
Vascular Surgery
Class Code
SUR630
Elective Tags
Inpatient Service, Patient Care, Teaching
Block Length
2 weeks preferred
Students
1
Prerequisites
SUR300 Surgery Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Please contact Julie K. Burkhart before scheduling a visiting medical student at 273-1712!!
What time should students report?
They will be notified in advance where to report!!
Who should they report to?
Vascular surgery chief resident

Goal

Vascular Surgery is the study and treatment of circulatory disorders outside the heart. Students will be exposed to the workup, medical, surgical and catheter-based management of vascular disease in both inpatient and outpatient venues. Teaching experiences include rounds, assisting in the operating room and catheterization laboratory, evaluating patients in the clinic. The Division holds weekly didactic teaching conferences and a daily clinical conference.

Learning Objectives

This is a clinical, "hands-on" rotation, where students will be expected to be a member of the normal operative team. Although rounds and patient care will be an integral part of the rotation, the student is expected and encouraged to spend as much of his or her time as possible in the operating room. If time and interest permits, outpatient office experience is available (particularly for students spending more time on the rotation), although the focus of this elective is inpatient care of sick patients.

By the end of this rotation, the student should be able to:
- Describe basic relevant clinical vascular anatomy
- Begin to understand basic concepts and decision-making in patients with vascular problems
- Gain experience in the acute management of pre- and postoperative surgical patients with a generally high level of acuity
- Be able to describe the basic vascular surgical procedures: Open and endovascular aortic surgery, carotid surgery, lower extremity bypass and amputation, and other operations

This rotation can be performed in two ways. Third-year students or those without extensive experience can do a two-week rotation. Fourth-year students or those interested in general or vascular surgery as a career are encouraged to spend four weeks with us on a formal subinternship. Although the student will work with and have the full support of the interns and housestaff, he/she will be encouraged to take primary responsibility for
his/her own patients, acting as their intern (with appropriate supervision and backup). Our goal is to have the student learn to perform at an intern's level, the only difference being that he/she will have responsibility for fewer patients.

**Schedule of Activities**

As above, students will work as a member of the surgical team. Rounds generally begin at 6am, and the entire team meets informally at 6:45 to go over patient status and plans for the day, followed by conference at 7am. Surgery starts at 7:30 or 8am, with rounds taking place at 8am every day for those not in the operating rooms. Days end when the work is done, generally between 6 and 8pm. Evening call will not be required, but can easily be arranged if interest permits

**Didactic Activities**

Mondays: 7am: Indications Conference

Wednesdays: 7am: Interventional Cardiology Conference (first of the month only), M+M otherwise

Thursdays: 7-10am: Grand Rounds, M+M, CPC, and Basic Science

5pm: "Big Boy Rounds," 7-1400 (interns, students present cases)

Fridays: 7am: Basic Science and Journal Club alternating

**Required Reading**

"Vascular Surgery" chapter in Schwartz, "Principles of Surgery." Additional sources can be assigned as individual interest permits

**Student Evaluations**

The student will be evaluated based on interest, attendance, and participation, and on whether he/she has accomplished the objectives discussed above.
Course Information

Course Director
Derek Edward Bell M.D.
Contact Person
Beth Jocolano/273-3656/beth_jocolano@urmc.rochester.edu
Class Year Name
Comprehensive Burn Care
Class Code
SUR640
Elective Tags
Patient Care
Block Length
2-4 weeks
Students
2
Prerequisites
SUR300 Surgery Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Burn Center (3-2800) at 7:30 am the first Monday of the rotation. Ask to have the burn resident paged.
What time should students report?
0730
Who should they report to?
Dr. Derek Bell

Goal

This rotation will expose students to the pathophysiology, assessment, treatment and rehabilitation of the burn victim.

Learning Objectives

The purpose of this elective is to acquaint future physicians with a scientific and rational approach to wound care in these complex patients. Also, it is the intention of this course to dispel the frequently associated myths and fears associated with burn care. Students will also gain experience with surgical critical care including ventilator management, resuscitation and nutritional support as well as out-patient management of thermal injury.

Schedule of Activities

Students on this elective will be expected to be a part of the Burn Care Team. They will participate in intensive care delivery, wound management techniques, surgical procedures. They will also attend rounds, multi-disciplinary conferences and burn specific lectures.

Didactic Activities

Lectures are given on Tuesdays and during the week as time permits.

Required Reading

Will come from Total Burn Care (ed. Herndon) and the Burn Section from the American College of Surgeons
**Course Information**

Course Director  
Carolyn E. Jones M.D.  
Contact Person  
Julie K. Burkhart/273-1712 julie_burkhart@urmc.rochester.edu  
Class Year Name  
Thoracic Surgery  
Class Code  
SUR650  
Elective Tags  
Inpatient Service, Patient Care, Teaching  
Block Length  
2 weeks preferred  
Students  
1  
Prerequisites  
SUR300 Surgery Clerkship  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
No  
Available to the following medical students:  
3rd Year, 4th Year, International Visiting, Visiting  
Where should students report?  
All visiting medical students need to get approved by Julie K. Burkhart at 273-1712.  
What time should students report?  
They will be notified by Julie K. Burkhart!!  
Who should they report to?  
Dr. Carolyn Jones

**Goal**

1. To understand common thoracic surgical disease processes and their management.  
2. To provide exposure to a general thoracic surgical practice for students potentially interested in pursuing this specialty.

**Learning Objectives**

By the end of the rotation the student should be able to:  
1. List the common types of thoracic malignancies, understand the relevant work-up and potential treatment strategies, and participate in outpatient follow-up.  
2. Recognize various benign esophageal and pulmonary diseases that may require surgical intervention, the appropriate diagnostic and therapeutic considerations, and proper patient selection.  
3. Understand the variety of operative techniques, including open and minimally invasive approaches, and the conduct of safe surgery.

**Schedule of Activities**

Monday 7:00 - 8:00 a.m.  
Didactic teaching conference (resident lectures, morbidity/mortality conference case presentation, review questions.)  
Clinics: Monday, p.m., Tuesday/Wednesday/Thursday a.m.  
OR: Every Tuesday/Wednesday/Friday (all day); other cases as permitted  
Endoscopy/Manometry Lab: As scheduled  
A.M. Rounds Daily

**Didactic Activities**
Mondays ? 7:00 ? 8:00 a.m. (as per above)
One Wednesday evening per month (6:30 ? 9:00 p.m.): Grand Rounds
Thursday 7:00 a.m. (except summer months): Surgery Grand Rounds
Saturday 8:00 a.m. (every other week): Thoracic Oncology Conference

**Required Reading**

No required text/syllabus. Students are expected to come to the operating room having familiarized themselves with the patient’s history & disease process, having read about the disease and planned operative procedure, and understand appropriate consideration in their postoperative management. Recommended text can be suggested by the faculty.

**Student Evaluations**

Students will be evaluated by all faculty members on the Thoracic Surgical team. Characteristics assessed will be: 1) Fund of knowledge as demonstrated by case specific reading and general medical base; 2) Enthusiasm/motivation/work ethic; 3) Integrity/reliability; 4) Interpersonal skills and relationships with faculty, house staff and nurses.
Course Information

Contact Person
Melanie Zandvoort, 276-5655
Class Year Name
Neurosurgery Elective
Class Code
SUR651
Elective Tags
Inpatient Service
Block Length
2 or 4 weeks
Students
2

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
Students are to page the Neurosurgery Chief Resident - please contact Melanie Zandvoort by email for more information.

What time should students report?
7:00 am

Who should they report to?
Neurosurgery Chief Resident.

Goal

Introduction to evaluation of neurosurgical diseases, neurosurgical interventions and evaluation to treat neurosurgical patients. For further information please log on to: http://www.urmc.rochester.edu/neurosurgery/

Learning Objectives

By the end of the rotation the student should be able to: Evaluate neurosurgical patients. Evaluate and choose neurosurgical procedures appropriate to treat a variety of conditions.

Schedule of Activities

Accompany attending MD in OR, evaluation of new patients in resident clinic, and reviewing of diagnostic studies.

Didactic Activities

Will shadow with attending, MD in his practice. Students are expected to attend weekly academic conferences, Thursdays, 7:30 - 8:15 a.m. and Fridays, 6:30- 11:00 a.m.

Required Reading

No required reading. Will recommend readings.

Student Evaluations
Course Information

Course Director
Peter A. Knight M.D.
Contact Person
Julie K. Burkhart 273-1712 - global e-mail
Class Year Name
Cardiac Surgery
Class Code
SUR656
Elective Tags
Inpatient Service, Patient Care, Teaching
Block Length
2 weeks preferred
Students
1
Prerequisites
SUR300 Surgery Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, International Visiting, Visiting
Where should students report?
Contact office Friday before you start for location. Please contact Julie K. Burkhart before scheduling any visiting medical students at 273-1712.
What time should students report?
6:00 a.m. - location TBD
Who should they report to?
Dr. Sunil Prasad/ Dr. Peter Knight

Goal

to provide a comprehensive exposure to cardiac surgery, with special emphasis on anatomy, physiology and surgical care of patients with all aspects of adult cardiac disease.

Learning Objectives

By the end of the rotation the student should be able to:
? Understand coronary anatomy and indications for coronary artery surgery.
? Understand basic cardiac and pulmonary physiology and how it is applied to patients after cardiac surgery
? Understand indications for valvular and thoracic aneurysm surgery
? Understand arrhythmia?s and their treatment
? Understand the patient care protocols for post-operative patients
? Be exposed to patient?s evaluation and follow-up in out-patient setting.

Schedule of Activities

? Exposure to one service in cardiac surgery
? A.M. Resident rounds/ Week-end optional
? P.M. Attending Rounds mandatory
? Tuesday A.M. Cardiac Service
? Wednesday A.M. Cardiac Cath Rounds

Didactic Activities

243
Friday A.M. Cardiac Didactic Conference
Daily O.R. exposure
Wednesday A.M. Outpatient office exposure

**Required Reading**


**Student Evaluations**

Evaluation of students will be based on their team participation, interest in learning, and fund of knowledge regarding cardiac anatomy, physiology and treatment.
**Course Information**

Course Director  
Glenn Todd Schneider M.D., M.S.  
Contact Person  
Sheila K. McCart, 585-276-5181, sheila_mccart@urmc.rochester.edu  
Class Year Name  
Otolaryngology Elective  
Class Code  
SUR661  
Elective Tags  
Inpatient Service, Outpatient Service, Patient Care, Teaching  
Block Length  
2 or 4 wks  
Students  
3  
An elective experience is sometimes "split" by these weeks. Is it okay to split?  
Yes  
Available to the following medical students:  
3rd Year, 4th Year, Visiting  
Where should students report?  
Students should email the chief residents listed below on Thursday or Friday of the week before elective begins.  
What time should students report?  
Time will be determined by the chief residents. Rounds usually begin between 6-6:15am at Strong.  
Who should they report to?  
Nadeem_kolia@urmc.rochester.edu Isaac_schmale@urmc.rochester.edu weitao_schmale@urmc.rochester.edu

**Goal**

To provide an overview of a wide range of disease and problems of the ear, nose, and throat, and related structures of the head and neck. To provide clinical experience in primary care otolaryngology.

**Learning Objectives**

By the end of the rotation the student should be able to:

Identify common otolaryngologic disorders and have basic knowledge of therapy for common situations, including neoplastic, inflammatory, congenital, traumatic and allergic immune diseases.

Be competent to complete a comprehensive examination of the head and neck.

Be skilled in the use of the following instruments: otoscope, laryngoscope, nasal speculum, and head light.

Be competent to treat acute infection of the ear, nose, and throat.

Be able to determine when a patient needs further evaluation or treatment.

Be able to identify otolaryngologic emergencies and triage them appropriately.

Have a basic working knowledge of head and neck surgical anatomy.
**Schedule of Activities**

All students will be expected to view the following videos in our video library: Examination of the Head and Neck and the Ear. Cummings, Smith and Davidson; Head and Neck Surgery, Common Procedures. Coulthard and Davidson.

**Didactic Activities**

Typically, the student will report to the chief residents at the start of daily rounds on the Monday beginning their clerkship. The team usually begins rounds between 6:00-6:15am in the WCC5 resident room. The student will accompany the preceptor through his day of practice, surgery, rounds, and conferences. Students will be required to attend all formal teaching rounds, journal club, and divisional conferences, which are held during their ENT clerkship.

Please contact chief residents with any questions or concerns before or during clerkship.

**Required Reading**

All students will be expected to obtain and read about specific patients/cases in a standard textbook in otolaryngology. (Several copies are available on loan in our library).

"Otolaryngology for Primary Care Physicians" will be provided to you by the chief resident.

**Student Evaluations**

A satisfactory performance will be based on evaluations by faculty preceptor, based on learning objectives, and each student's clinical performance, with particular emphasis on interest, initiative, conscientiousness and interpersonal skills with faculty member and patients.
Course Information

Course Director
Derek Edward Bell M.D.
Contact Person
Beth Jocolano; 273-3656; beth_jocolano@urmc.rochester.edu
Class Year Name
Clinical Experience in Basic Plastic Surgery
Class Code
SUR671
Elective Tags
Inpatient Service, Outpatient Service, Patient Care
Block Length
2 - 4
Students
4
Prerequisites
SUR300 Surgery Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
First Monday of the rotation to the Bales Library at 6:30 AM room 2-5109
What time should students report?
6:30 AM to the Bales Library 2-5109 for Monday Morning Conference
Who should they report to?
Derek Bell, MD

Goal

To understand the nature and scope of plastic surgery and be able to function at the R-1 level while on Plastic Surgery.

Learning Objectives

By the end of the rotation the student should be able to:
1. Identify which patients would benefit from care by a plastic surgeon.
2. Evaluate the patient presenting for plastic surgical evaluation.
3. Render clinical and surgical care (evaluate disorders, discuss treatment options, write history and physicals, write post-operative orders, write hospital progress notes, formulate treatment plans).
5. Demonstrate clear understanding of a topic of interest to be presented at grand rounds.

Schedule of Activities

Students are assigned to the Strong Memorial Hospital. Day begins with morning rounds, usually around 6:30 a.m. Clinical or surgical activities (outpatient clinic, operating room, ambulatory surgical center, inpatient floor consults, emergency room) are followed by evening rounds, usually finishing by 5 or 6 p.m. 4 week rotations will be apprenticeship style, spending a week with each attending learning general plastic surgery, breast and microsurgery, aesthetic surgery, burn surgery, pediatric and craniofacial surgery, and body contouring after massive weight loss.

Didactic Activities
Attendance is mandatory at Monday morning didactic core conference from 6:30 to 7:30 a.m. in the Bales Library. Thursday morning grand rounds is a city wide conference in the Bales Library from 7-8 a.m., and includes morbidity and mortality conference as well as indications conferences. Journal club is typically held on the last Friday of every month in the evening at an attending’s home or local restaurant. Attendance at other didactic opportunities such as hand conference or craniofacial team conference is strongly recommended.

**Required Reading**

Plastic and Reconstructive Surgery – Essentials for Students. This is available for free at: http://www.plasticsurgery.org/Medical_Professionals/Publications/Plastic_and_Reconstructive_Surgery_Essentials_for_Students.html

**Student Evaluations**

The student’s performance will be evaluated by all faculty, house officers, and staff who are assigned to the Division of Plastic Surgery. A concise, 20 minute grand rounds presentation on a subject of interest to the student will be evaluated. One on one questioning by faculty members in particular will be used to evaluate the accomplishment of the learning objectives.
Course Information

Course Director
Koji Tomiyama M.D., Ph.D.
Contact Person
Julie Burkhart, 273-1712, julie_burkhart@urmc.rochester.edu
Class Year Name
Transplant Surgery Elective
Class Code
SUR675
Elective Tags
Inpatient Service, Patient Care, Teaching
Block Length
2
Students
1
Prerequisites
SUR300 Surgery Clerkship
An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
3rd Year, 4th Year, Visiting
Where should students report?
Julie Burkhart will let the medical student know where to report.
What time should students report?
"
Who should they report to?
"
**Course Information**

Course Director
Clinton Strauss Morrison M.D.
Contact Person
Beth Jocolano 273-3656 Beth_Jocolano@Urmc.rochester.edu
Class Year Name
Team Care of the Pediatric Craniofacial Patient
Class Code
SUR676
Elective Tags
Patient Care
Block Length
2-4 weeks
Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
3rd Year, 4th Year, Visiting

Where should students report?
Contact either Beth Jocolano or Dr. Clinton Morrison
What time should students report?

Who should they report to?

**Goal**

Students should be able to experience and understand the multi-disciplinary treatments of children with facial differences.

**Learning Objectives**

Medicine is becoming disease focused rather than specility focused. Caring for children with complex facial anomalies requires a multidisciplinary approach. The student should:

1. understand the breadth of issues associated with cleft lip and palate and other facial differences

2. be able to identify who would benefit from referral to a craniofacial team

3. experience the interplan and information transfer that is essential to team care.

**Schedule of Activities**
Daily time with all members of the craniofacial team. Includes conferences, clinics and operating time. Time will be spent in the areas of genetics, ENT surgery, Oral surgery, dentistry, and plastic surgery.

**Didactic Activities**

Daily time with all members of the craniofacial team. Includes conferences, clinics and operating time. Time will be spent in the areas of genetics, ENT surgery, Oral surgery, dentistry, and plastic surgery.

**Required Reading**

Provided

**Student Evaluations**

Students will be evaluated by multiple faculty members in the areas of genetics, oral surgery, ENT, and plastic surgery. The end of month presentation will be graded by our team.
Course Information

Course Director
William Cannon Hulbert M.D.
Contact Person
Stephany Greenough, 273-1904, stephany_greenough@urmc.rochester.edu
Class Year Name
Urology Elective
Class Code
URO601
Elective Tags
Inpatient Service
Block Length
4 weeks
Students
2

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No
Available to the following medical students:
4th Year, International Visiting, Visiting
Where should students report?
James P. Wilmot Cancer Center, 5th floor (WCC5)
What time should students report?
6:30 a.m.
Who should they report to?
Urology Chief Resident

Goal

This course is for those students who want to pursue a career in urology. This one month elective offers fourth year students a broader and more concentrated exposure to the various aspects of urology and the evaluation and management of patients with urologic conditions. This sub-internship has expectations and performance similar to that of an early stage intern. The sub-intern will be part of the urologic team and actively participate in clinic, OR and on rounds. The sub-intern has the opportunity to be involved in endourology, female urology/reconstruction, pediatric urology, oncology and minimally invasive urology as well as involvement in robotic skills practice in our Sim Skills Lab.

Learning Objectives

Objectives:

History skills - gather important information needed for a general urology history

Physical examination skills - be able to perform a thorough and comprehensive urologic physical exam

Knowledge and understanding of diagnostics tests - know about common urologic conditions requiring outpatient and inpatient care, operative knowledge and interventional options

Identify and order appropriate diagnostic laboratory and imaging studies after formulating a differential diagnosis; interpret the studies and arrive at a diagnosis; suggest medical management and present the case with the appropriate faculty member

Professionalism - demonstrate professional responsibility as a working team member with faculty, residents, patients and families
Schedule of Activities

Students will actively participate with selected faculty members and the inpatient resident staff in the ambulatory setting, lithotripter area and the operating rooms as a member of the team. Attending and house staff supervision and teaching will be part of all aspects of the rotation, as well as an opportunity for independent activity. A schedule will be emailed to the student that contains the assigned attending physician whom they will be working with, their OR and clinic schedule times and locations.

Didactic Activities

Students are expected to participate in weekly departmental conferences, including Grand Rounds, Journal Club, Indications, QA and lectures given by faculty and visiting guests.

Required Reading

Students are expected to read and demonstrate understanding of all the urology topics in the Medical Student Curriculum found on the AUA website.

Student Evaluations

A graded performance will include the documentation of a patient history and physical exam, completion of a five question exam, and resident/faculty evaluations.
Course Information

Course Director
William Cannon Hulbert M.D.

Contact Person
Stephany Greenough, 273-1904 stephany_greenough@urmc.rochester.edu

Class Year Name
Surgical Specialties: Urology Clerkship

Class Code
URO604

Elective Tags
Inpatient Service

Block Length
1-2 weeks

Students
1

An elective experience is sometimes "split" by these weeks. Is it okay to split?
No

Available to the following medical students:
2nd Year, 3rd Year, 4th Year, International Visiting, Visiting

Where should students report?
James P. Wilmot Cancer Center, 5th floor (WCC5)

What time should students report?
6:30 a.m.

Who should they report to?
Urology Chief Resident

Goal

This course is offered to students to build upon the basic urology learning accomplished in the second year Primary Care Clerkship. This course is designed to prepare students to evaluate and manage urologic disorders at a primary care level and to recognize those problems which need further specialty consultation. During this elective, the student is attached to the urology resident team, working side by side with faculty and residents, rounding on inpatients, going to the operating room, emergency room and hospital consults, going to clinic with a urology attending physician and attending departmental conferences.

Learning Objectives

By the end of the rotation the student should be able to:

1) History skills - obtain an accurate history from patients with a urologic complaint
2) Physical examination skills - perform a focused urologic examination on patients
3) Demonstrate knowledge of the basic urologic laboratory exams, urine analysis, PSA, renal function tests, imaging studies, endoscopy, extracorporeal shockwave lithotripsy (ESWL), urodynamics
4) Demonstrate an understanding of assignments and common urologic problems including renal, bladder, prostate cancer; kidney stones; urinary incontinence; significance of hematuria; male erectile dysfunction/infertility; UTIs; intrascrotal lesions and how to differentiate between them
5) Formulate an appropriate differential diagnosis
6) Professionalism - demonstrate professional responsibility as a working team member with faculty, residents, patients and families

Schedule of Activities

Each student is given a schedule including approximately 8 hours of faculty-supervised evaluation, examination
and treatment of patients in the ambulatory setting. In addition, there are weekly didactic activities. There are multiple opportunities to participate in the operating room, including ESWL stone treatment. The typical hours are Monday through Friday, 6:00 a.m. 6:00 p.m. The home base for all student activity is the urology inpatient team.

**Didactic Activities**

Students are expected to participate in weekly departmental conferences including Grand Rounds, Journal Club, Indications, QA and lectures given by faculty and visiting guests.

**Required Reading**

Students are required to read select topics in the Medical Student Curriculum (core content) found on the AUA website.

**Student Evaluations**

Final grading is done by the program director and is based on evaluations by residents and preceptors. The student is required to complete a Reflection Paper which documents an experience during the course (e.g., clinic, operating room, patient floor, and/or faculty/resident/patient interactions).